

>> Application Guide



**High Precision** 



# SP-1U/2U Series High Performance Programmable DC Power Supply

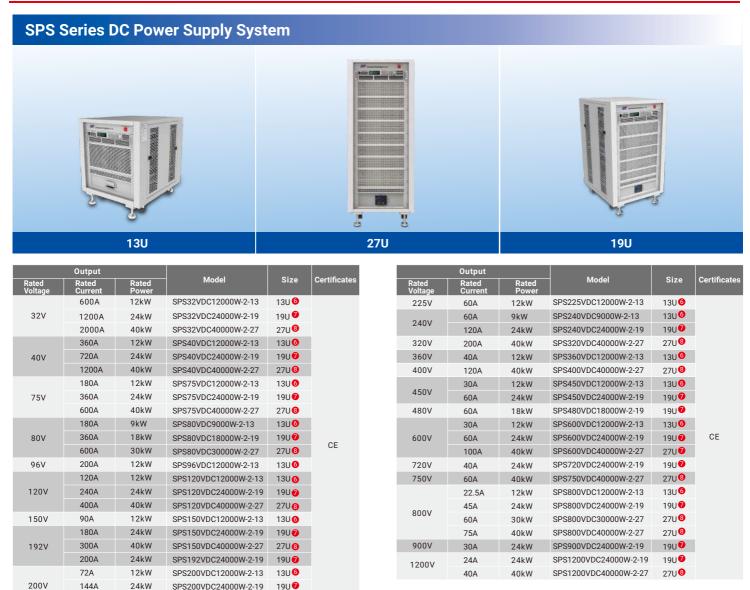


1000W~4000W



#### 600W~1600W

	Output				R	ipple	Resp	onse			
Rated Voltage	Rated Current	Rated Power	Model	Size	Voltage	Current	Voltage increase	Voltage Drop	Certificates		
voltage	Guirein	600W	SP20VDC600W					≤150ms(No load), ≤20ms(Full load)	CE/RoHs		
20V	60A	1000W	SP20VDC1000W	10 1	40mVp-p/6mVrms	20mA (TYP Value)	≤10ms(No load), ≤10ms(Full load)	≤150ms(No load), ≤15ms(Full load)	CE/RoHs		
		1200W	SP20VDC1200W					≤150ms(No load), ≤12ms(Full load)	CE/RoHs		
		600W	SP32VDC600W				<10ma(Na laad) <10ma(Full laad)	≤150ms(No load), ≤20ms(Full load)	CE/RoHs		
	50A	1000W	SP32VDC1000W	10 1	10m)/n n/6m)/rmo		≤12ms(No load), ≤12ms(Full load)	$\leq$ 150ms(No load), $\leq$ 15ms(Full load)	CE/RoHs/CSA/FCC		
	50A	1200W	SP32VDC1200W		40mVp-p/6mVrms	20mA (TYP Value)	(10m - (No lo - 1)) (10m - (Full lo - 1))	$\leq$ 150ms(No load), $\leq$ 12ms(Full load)	CE/RoHs/CSA/FCC		
32V		1600W	SP32VDC1600W	10 🛈			≤10ms(No load), ≤10ms(Full load)	$\leq$ 150ms(No load), $\leq$ 10ms(Full load)	CE/RoHs/CSA/FCC		
521		1000W	SPS32VDC1000W				$\leq$ 20ms(No load), $\leq$ 40ms(Full load)	$\leq$ 500ms(No load), $\leq$ 45ms(Full load)	CE		
	200A	2000W	SP32VDC2000W	2U 😉	60mVp-p/10mVrms	200mA (TYP Value)	≤20ms(No load), ≤30ms(Full load)	≤500ms(No load), ≤30ms(Full load)	CE		
	2007	3000W	SP32VDC3000W				≤20ms(No load), ≤20ms(Full load)	≤500ms(No load), ≤25ms(Full load)			
		4000W	SP32VDC4000W					≤500ms(No load), ≤20ms(Full load)	CE		
		600W	SP40VDC600W					≤150ms(No load), ≤20ms(Full load)	CE/RoHs		
	40A	1000W	SP40VDC1000W	10 1	40mVp-p/6mVrms	20mA (TYP Value)	≤10ms(No load), ≤10ms(Full load)	≤150ms(No load), ≤15ms(Full load)	CE/RoHs/CSA/FCC		
		1200W	SP40VDC1200W					≤150ms(No load), ≤12ms(Full load)	CE/RoHs/CSA/FCC		
40V		1600W	SP40VDC1600W	10 🚺				≤150ms(No load), ≤10ms(Full load)	CE/RoHs/CSA/FCC		
401		1000W	SPS40VDC1000W						CE/RoHs		
	120A	2000W	SP40VDC2000W	2U 😉	40mVp-p/6mVrms	20mA (TYP Value)	≤10ms(No load), ≤10ms(Full load)	$\leq$ 350ms(No load), $\leq$ 10ms(Full load)	CE/RoHs CE/RoHs		
		3000W	SP40VDC3000W						CE/RoHs		
		4000W 600W	SP40VDC4000W					≤160ms(No load), ≤20ms(Full load)	CE/RoHs/CSA		
		1000W	SP75VDC600W SP75VDC1000W					≤160ms(No load), ≤20ms(Full load)	CE/RoHs/CSA/FCC		
751/	25A	1200W	SP75VDC1200W	10 😢	40mVp-p/6mVrms	10mA (TYP Value)	≤10ms(No load), ≤10ms(Full load)	$\leq$ 160ms(No load), $\leq$ 12ms(Full load)	CE/RoHs/CSA/FCC		
/5/	75V	1500W	SP75VDC1500W					$\leq$ 160ms(No load), $\leq$ 10ms(Full load)	CE/RoHs/CSA/FCC		
	60A	4000W	SP75VDC4000W	20 4	40mVp-p/8mVrms	10mA (TYP Value)	≤15ms(No load), ≤15ms(Full load)	≤450ms(No load), ≤20ms(Full load)	CE/RoHs/CSA/FCC		
		1000W	SP80VDC1000W	20					CE		
80V	60A		SP80VDC2000W	20 4	40mVp-p/6mVrms	10mA (TYP Value)	≤15ms(No load), ≤15ms(Full load)	$\leq$ 450ms(No load), $\leq$ 30ms(Full load)	CE/RoHs		
		3000W	SP80VDC3000W						CE/RoHs		
		1000W	SPS120VDC1000W						CE/RoHs		
1001	40.4	2000W	SP120VDC2000W	2U 4	80mVp-p/15mVrms	10mA (TYP Value)	< 20ms(No load) < 20ms(Full load)	≤350ms(No load), ≤21ms(Full load)	CE/RoHs/CSA/FCC		
120V	40A	3000W	SP120VDC3000W	20	001117p-p/131111111		220mo(no loud), 220mo(numoud)		CE/RoHs/CSA/FCC		
		4000W	SP120VDC4000W								CE/RoHs
		600W	SP150VDC600W						CE/RoHs		
	10A	1000W	SP150VDC1000W	1U 🕄	120mVp-p/40mVrms	10mA (TYP Value)	≤25ms(No load), ≤25ms(Full load)	≤400ms(No load), ≤32ms(Full load)	CE/RoHs		
	10/1	1200W	SP150VDC1200W						CE/RoHs		
150V		1500W	SP150VDC1500W						CE/RoHs		
		1000W	SPS150VDC1000W			10mA (TYP Value)	≤25ms(No load), ≤25ms(Full load)	≤500ms(No load) , ≤25ms(Full load)	CE/RoHs		
	30A	2000W	SP150VDC2000W	2U 🔮	80mVp-p/15mVrms				CE/RoHs/CSA/FCC		
		3000W	SP150VDC3000W						CE/RoHs/CSA/FCC		
		4000W	SP150VDC4000W					<600mp(Nipland) <60mp(Full land)	CE/RoHs/CSA/FCC		
		600W 1000W	SP200VDC600W SP200VDC1000W					$\leq$ 600ms(No load), $\leq$ 50ms(Full load) $\leq$ 600ms(No load), $\leq$ 40ms(Full load)	CE/RoHs CE/RoHs		
	8A	1200W	SP200VDC1000W	10 🕄	120mVp-p/40mVrms	10mA (TYP Value)	$\leq$ 30ms(No load), $\leq$ 30ms(Full load)	≤600ms(No load), ≤36ms(Full load)	CE/RoHs		
		1500W	SP200VDC1200W					$\leq$ 600ms(No load), $\leq$ 30ms(Full load)	CE/RoHs		
200V		1000W	SPS200VDC1000W						CE/RoHs		
		2000W	SP200VDC2000W	•					CE/RoHs		
	24A	3000W	SP200VDC3000W	2U 4	150mVp-p/30mVrms	20mA (TYP Value)	≤30ms(No load), ≤30ms(Full load)	≤500ms(No load), ≤20ms(Full load)	CE/RoHs		
		4000W	SP200VDC4000W						CE/RoHs		
		1000W	SPS600VDC1000W					≤800ms(No load), ≤110ms(Full load)	CE/RoHs		
600V	10.	2000W	SP600VDC2000W	2U 🟮	350mVp-p/40mVrme	10mA (TYP Value)	≤60ms(No load), ≤60ms(Full load)	≤800ms(No load), ≤90ms(Full load)	CE/RoHs		
0000	10A	3000W	SP600VDC3000W	20 🗸	ocontrop p/40mmms	ionia (i i r value)	200116(100 10au), 200116(Full 10au)	≤800ms(No load), ≤75ms(Full load)	CE/RoHs		
		4000W	SP600VDC4000W					≤800ms(No load), ≤60ms(Full load)	CE/RoHs		
		1000W	SPS800VDC1000W						CE/RoHs		
800V	7.5A	2000W	SP800VDC2000W	2U 😏	800mVp-p/200mVrms	10mA (TYP Value)	<60ms(No load) <60ms(Full load)	≤800ms(No load), ≤60ms(Full load)	CE/RoHs		
	7.04	3000W	SP800VDC3000W	20 -	220000 p/200000000	( (			CE/RoHs		
		4000W	SP800VDC4000W						CE/RoHs		



\*This formula is the standard cabinet for SP-2U model; it is available to select cabinet with different specification according to exact situation.

SPS200VDC40000W-2-27

27U 8

#### **Dimensions & Weight**

240A

40kW



#### Features

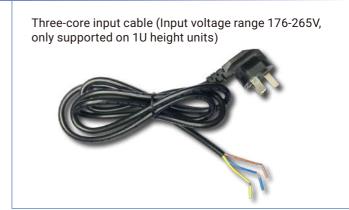
- Low ripple and noise
- High accuracy and high resolution
- CC and CV working mode switch freely
- Support LIST/SEQUENCE file editing
- OVP/OCP/OPP/OTP/SCP

- Remote compensation
- With external analog control input interface
- Standard USB/LAN/RS485/RS232 communication interface
- Master/Slave parallel and series operation mode for up to 10 units

### **Optional Information**

GPIB communication card & cables





#### **Front Panel Introduction**

#### 1U Power Supply Front Panel



#### 2U Power Supply Front Panel

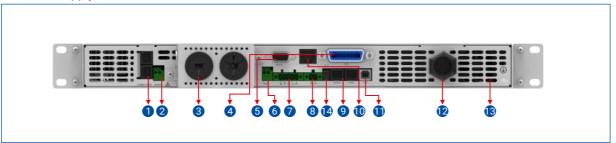


Key	Introduction	Key	Introd
0~9	Numeric Key	Display	Press i
Ō	Decimal Point	On/Off	Contro
ESC	Escape	Menu	Menu
	UP, used for choose menu or increase set value in menu operation	Shift	Work w
$\bigtriangledown$	DOWN, used for choose menu or decrease set value in menu operation	LOCAL	Panel o
Enter	Enter	RECALL	Recalls
V-set	Set power supply's output voltage value	STORE	Store c
I-set	Set power supply's output current-limiting value	DVM/POWER	Display

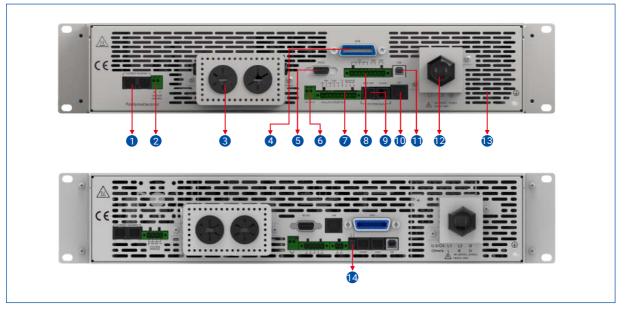
Key	Introduction					
Display	Press it to back to the main interface quickly					
On/Off	Control ON/OFF of power supply					
Menu	Menu					
Shift	Work with functional keys to realize multifunction					
LOCAL	Panel operation					
RECALL	Recall stored setting value of power supply from internal storage					
STORE	Store current settings of power supply to storage location					
DVM/POWER	Display DVM value and power value					

### **SP Series Back Panel Introduction**

#### 1U Power Supply Back Panel



#### 2U Power Supply Back Panel



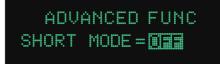
- AVG1/AVG2 Connector, used for connecting between units to enable current sharing.
- 2 Voltage Remote Supporting Connector (VOLTAGE SENSING): Used to support wire voltage drops.
- **3** DC output terminal: Left (-), Right (+).
- 4 GPIB Communication connector.
- **5** RS-232 Communication connector.
- 6 DVM Connector.
- ANALONG INTERFACE signal connection terminal.
- 8 RS-485 Communication connector.
- 9 SYSTEM BUS control, used for transmission of master and slaves.
- LAN Communication Interface.
- (1) USB Communication Interface.
- AC Power Connection terminal.
- 13 The fan duct outlet.
- Image: Termination resistor for RS485 and CAN Communication.

Note: There is a slight difference between these two kinds of rear panels of 2U units.

#### Short Mode

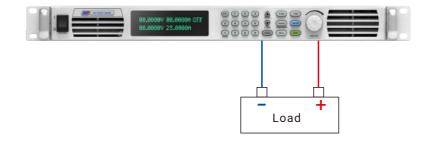
This function is applicable to cable/fuse current carrying capacity test, when activated, the power supply will shutdown the short circuit protection function and maintain ultra-low voltage to output rated current.





#### **Timer Control Function**

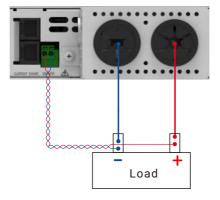
This function is applicable to unattended occasions, activate the timer and the output, the screen will show the countdown of the timer. Once it reaches down to zero, the supply will turn off the output automatically. And the full protection of the power supply will make sure the safe usage of this function.



TIMER 00:05:00 00.0000V 000.000A OFF 12.0000V 009.000A

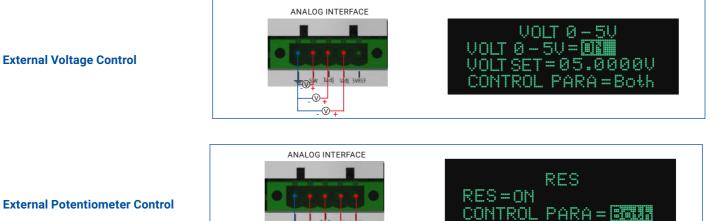
#### **Remote Compensation Function**

This function is applicable to compensate the voltage drop on the load line in order to improve the accuracy of test. In practical applications, even if the voltage drop is negligible, it is best to connect the remote compensation cable to the output terminal. When using the remote compensation functionality, please disconnect the S+, S- from the power supply's output terminal, and connect them to both ends of the DUT. Maximum compensation voltage is up to 5V. The output power need be lower than 1.05% of the rated power after compensation.



#### **External Control Function**

This series power supply can offer external voltage/ potentiometers control output, can be controlled by external voltage( $0 \sim 5V$ ) or external potentiometers( $5 \sim 10K$ ) in order to remotely adjust the power supply voltage and current regulation settings and the output status of the power supply.



#### **LIST Waveform Editing Function**

This series power supply supports 3 kinds of LIST file editing format in order to meet the output elements of different test requirements. The minimum resolution of time setting is 1ms.

#### **Impulse File Format**

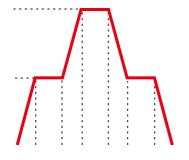
Sets the trend of the output voltage over time and its duration. Set the mode of the output waveform execution as required, LOOP, CONT, STEP.



				· · ·
- · · · ·				
- 1 I I I I				
OCV		 		and the second second
HUK				
F				

### Slope File Format

Support to set the slope of output voltage, achieve to slowly increase and drop of the output voltage. Set the mode of the output waveform execution as required, LOOP, CONT, STEP.





#### **SEQUENCE Waveform Editing function**

This function is an upgrade version of the LIST file editing. Its every step is a complete LIST file. It can combine several LIST file and output, meanwhile, it can set the number of repetitions per LIST file and number of executions of the entire SEQUENCE file.





#### **Measure Average Function**

Under this mode, if the DUT has a sharp change in voltage and current, the averaging times can be adjusted to be FAST, MEDIUM or SLOW to make the displayed value more stable.

MEASURE AVERAGE MEAS SPEED = **Frein** 

#### **Current Counting Function**

This function offers testing of the cutoff time of a breaker or a fuse.

Starts timing when the current reaches the circuit breaker or fuse's fusing current Ib, stops timing when disconnected, the timing resolution is up to 200ms.

V=00.0000V	I=00.0000A
Ib=10.0000A	OFF
00:00:	000ms

#### **Quick Recall Function**

Support to recall the stored parameters directly by the numeric keys on the front panel.

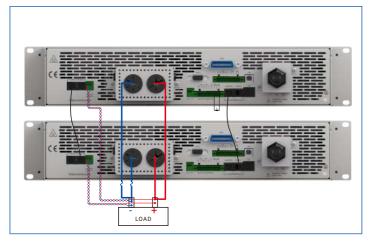
Firstly, user stores the frequently used data in the power supply's memory, press the numeric key directly after entering the quick recall mode, can quick recall the datas which are stored in  $[1] \sim [9]$ 

00.00000	000.000A	OFF
12.0000V	009.000A	[1]

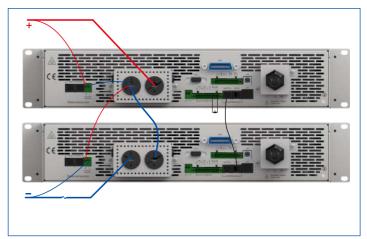
#### Master/Slave Mode

This series power supply support Master/Slave parallel and series operation mode for up to 10 units, extended power up to 40kW. The current sharing function in parallel mode realizes the equalization of the power supplies the system, thereby ensuring the extended power without affecting the performance index of the power supply. CAN parallel mode realizes the same dynamic response of the system as single unit, realizing high-speed and non-delayed synchronous response of master and slave.

#### **Parallel Connection**

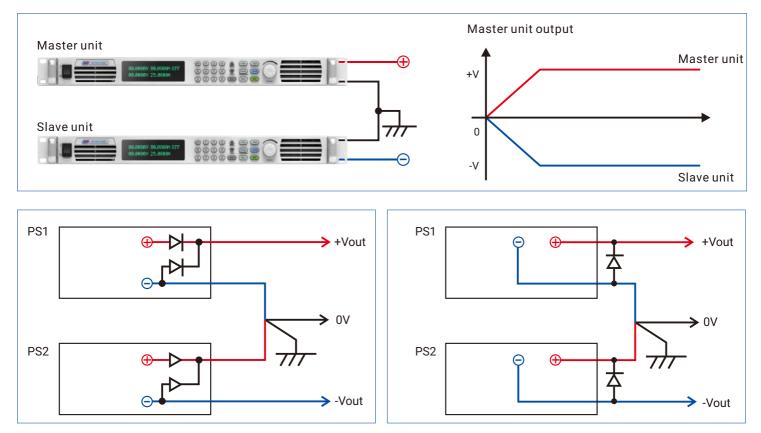


#### **Series Connection**



#### **Positive / Negative Voltage Output Mode**

This mode which enables both positive and negative outputs simultaneously in master slave operation.

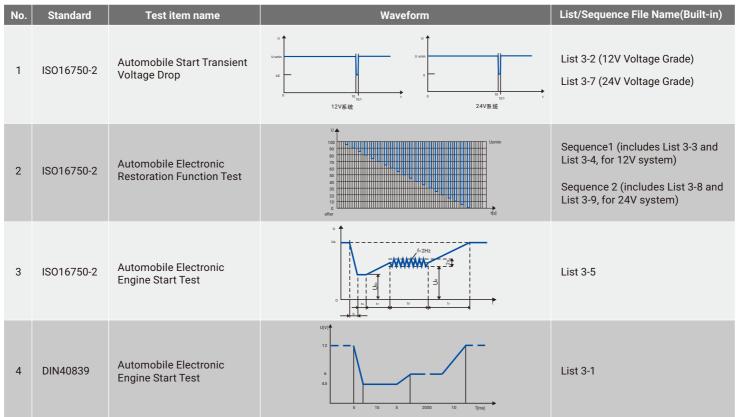


The power supply below 200A has been connected with anti reverse diode, so the external diode isn't needed in the actual connection, and the 200A power supply needs to connect the diode.

#### **Built-in Standard Automobile Electric Test Waveform**

It can be used to simulate the transient interference of power supply which may often be encountered in the process of automobile startup and operation. In accordance with industry standards, this series power supply has built-in voltage curves under the DIN40839 and ISO 16750-2 standards for 12V and 24V test grades. User can call the voltage curve directly for testing or edit as desired.

#### The built-in standard waveform cutline and file names are as below:



#### Anti reverse irrigation/Power Sink Function

This series power supply has protection against reverse irrigation, so as to cut off the current of DUT in a certain test condition to the direction of power supply, and prevent the damage to the power supply hardware circuit from DUT.



Meanwhile, this series power supply comes standard with short circuit copper sheet, When the test requires the power supply to absorb the spike generated by DUT to ensure the safety of the operation, the short-circuit copper piece can be connected, and the energy is absorbed by the output capacitor inside the power supply and other circuits.



Note: Please consult your sales representative to get detailed information about anti reverse irrigation protection for power supply models above 200A.

#### **Monitoring Software**

All power supplies come standard with graphical monitoring software, which supports all communication interfaces and covers almost all functions of the power supply front panel operation. In the communication selection interface, users can select the communication interface and search for the connected power supply according to the actual connection.

am				DC	Power Contr	ol Panel		
Communi	cation Select	tion			Port	and Power Mes	sages	
/ R8232	Benthes: M	101 (1		Part COVI USSI	A487. Nativ 1,558 546902-045301-56185	Power Name SPS2VDCa0808 SP60VDC20808	5N 0368/06/316881 8076N3211854921	MattarSkovn * Macar Macar
× 85455	Shap Bes	10 1						
√ UBB √ GPIB	Roditi Rod An Jon							
/ LAN	LAN PUT	1001						
			- He				Communication CP	wok OK

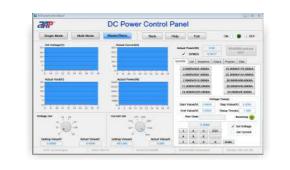
When the communication port has only one power supply connection, it enters the Single Mode interface. Includes the basic settings of voltage and current and measurement function, and List waveform editing/ saved test data function.



When the communication port has more than one power supply connection, it enters the Multi Mode interface. Supports switching control or display current power supply's settings.



When the communication port connects the power supply that is the Master unit, it enters Master/Slave interface. The Master/Slave interface only maintains communication with the Master unit, and the parameters are synchronously written to the slaves.



#### **WebServer Function**

Use can control the power supply on a computer using a web browser. No need to install the monitoring software, just open web browser and input IP address to control the unit, which can meet basic setting and monitoring requirements.



# **Product specification sheet Contents**

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SP20VDC1000W	15	
SP32VDC1000W	15	
SP40VDC1000W	15	
SP75VDC1000W	15	
SP150VDC1000W	15	
SP200VDC1000W	15	
SP20VDC1200W	16	
SP32VDC1200W	16	
SP40VDC1200W	16	
SP75VDC1200W	16	
SP150VDC1200W	16	
SP200VDC1200W	16	
SP75VDC1500W	17	
SP150VDC1500W	17	
SP200VDC1500W	17	
SP32VDC1600W	18	
SP40VDC1600W	18	
SPS32VDC1000W	19	
SPS40VDC1000W	19	
SPS80VDC1000W	19	
SPS120VDC1000W	19	
SPS150VDC1000W	20	
SPS200VDC1000W		
SPS600VDC1000W	20	
SPS800VDC1000W	20	

SP32VDC2000W	21
SP40VDC2000W	21
SP80VDC2000W	21
SP120VDC2000W	21
SP150VDC2000W	22
SP200VDC2000W	22
SP600VDC2000W	22
SP800VDC2000W	22
SP32VDC3000W	23
SP40VDC3000W	23
SP80VDC3000W	23
SP120VDC3000W	23
SP150VDC3000W	24
SP200VDC3000W	24
SP600VDC3000W	24
SP800VDC3000W	24
SP32VDC4000W	25
SP40VDC4000W	25
SP75VDC4000W	25
SP120VDC4000W	25
SP150VDC4000W	26
SP200VDC4000W	26
SP600VDC4000W	26
SP800VDC4000W	26

### **Selection List:**

Model	Voltage	Current	Power	Corresponding page
SP20VDC600W	20V	60A	600W	P14
SP32VDC600W	32V	50A	600W	P14
SP40VDC600W	40V	40A	600W	P14
SP75VDC600W	75V	25A	600W	P14
SP150VDC600W	150V	10A	600W	P14
SP200VDC600W	200V	8A	600W	P14
SP20VDC1000W	20V	60A	1000W	P15
SP32VDC1000W	32V	50A	1000W	P15
SP40VDC1000W	40V	40A	1000W	P15
SP75VDC1000W	75V	25A	1000W	P15
SP150VDC1000W	150V	10A	1000W	P15
SP200VDC1000W	200V	8A	1000W	P15
SP20VDC1200W	20V	60A	1200W	P16
SP32VDC1200W	32V	50A	1200W	P16
SP40VDC1200W	40V	40A	1200W	P16
SP75VDC1200W	75V	25A	1200W	P16
SP150VDC1200W	150V	10A	1200W	P16
SP200VDC1200W	200V	8A	1200W	P16
SP75VDC1500W	75V	25A	1200W	P10
SP150VDC1500W	150V	10A	1500W	P17
SP200VDC1500W	200V	8A	1500W	P17
SP32VDC1600W	32V	50A	1600W	P18
SP40VDC1600W	40V	40A	1600W	P18
SP\$00DC1000W	40 V 32 V	200A		P18
			1000W	
SPS40VDC1000W	40V	120A		P19
SPS80VDC1000W	80V	60A	1000W	P19
SPS120VDC1000W	120V	40A	1000W	P19
SPS150VDC1000W	150V	30A	1000W	P20
SPS200VDC1000W	200V	24A	1000W	P20
SPS600VDC1000W	600V	10A	1000W	P20
SPS800VDC1000W	800V	7.5A	1000W	P20
SP32VDC2000W	32V	200A	2000W	P21
SP40VDC2000W	40V	120A	2000W	P21
SP80VDC2000W	80V	60A	2000W	P21
SP120VDC2000W	120V	40A	2000W	P21
SP150VDC2000W	150V	30A	2000W	P22
SP200VDC2000W	200V	24A	2000W	P22
SP600VDC2000W	600V	10A	2000W	P22
SP800VDC2000W	800V	7.5A	2000W	P22
SP32VDC3000W	32V	200A	3000W	P23
SP40VDC3000W	40V	120A	3000W	P23
SP80VDC3000W	80V	60A	3000W	P23
SP120VDC3000W	120V	40A	3000W	P23
SP150VDC3000W	150V	30A	3000W	P24
SP200VDC3000W	200V	24A	3000W	P24
SP600VDC3000W	600V	10A	3000W	P24
SP800VDC3000W	800V	7.5A	3000W	P24
SP32VDC4000W	32V	200A	4000W	P25
SP40VDC4000W	40V	120A	4000W	P25
SP75VDC4000W	75V	60A	4000W	P25
SP120VDC4000W	120V	40A	4000W	P25
SP150VDC4000W	150V	30A	4000W	P26
SP200VDC4000W	200V	24A	4000W	P26
SP600VDC4000W	600V	10A	4000W	P26
SP800VDC4000W	800V	7.5A	4000W	P26

Model	SP20VDC600W	SP32VDC600W	SP40VDC600W	SP75VDC600W	SP150VDC600W	SP200VDC600W
			Input			
nput Voltage	90~265VAC					
nput Frequency	47~63Hz					
Power Factor	>0.98					
nput Power	750VA(MAX)					
			Output			
Output Voltage Range	0~20V	0~32V	0~40V	0~75V	0~150V	0~200V
Output Current Range	0~60A	0~50A	0~40A	0~25A	0~10A	0~8A
Output Power Range	0~600W					
oltage Load Regulation	10mV	10mV	10mV	10mV	15mV	15mV
Current Load Regulation	60mA	50mA	40mA	25mA	10mA	8mA
/oltage Display Resolution	0.1mV	0.1mV	0.1mV	0.1mV	1mV	1mV
Current Display Resolution	0.2mA	0.2mA	0.2mA	0.2mA	0.2mA	0.1mA
oltage Programmable Resolution	1.5mV	1.5mV	1.5mV	1.5mV	3mV	3mV
urrent Programmable Resolution	2mA	2mA	2mA	1mA	1mA	1mA
/oltage Setting Accuracy <sup>[1]</sup>	0.05%+15mV	0.05%+15mV	0.05%+15mV	0.05%+15mV	0.1%+15mV	0.1%+15mV
Current Setting Accuracy	0.1%+60mA	0.1%+50mA	0.1%+40mA	0.1%+25mA	0.1%+10mA	0.1%+8mA
oltage Measurement Accuracy <sup>(1)</sup>	0.05%+15mV	0.05%+15mV	0.05%+15mV	0.05%+15mV	0.1%+15mV	0.1%+15mV
Current Measurement Accuracy	0.1%+60mA	0.1%+50mA	0.1%+40mA	0.1%+25mA	0.1%+10mA	0.1%+8mA
/oltage Ripple <sup>[2]</sup>	40mVp-p 6mVrms	40mVp-p 6mVrms	40mVp-p 6mVrms	40mVp-p 6mVrms	120mVp-p 40mVrms	120mVp-p 40mVrms
Current Ripple <sup>[3]</sup>	60mA (Full Range) 20mA (TYP Value)	50mA (Full Range) 20mA (TYP Value)	40mA (Full Range) 20mA (TYP Value)	25mA (Full Range) 10mA (TYP Value)	40mA (Full Range) 10mA (TYP Value)	40mA (Full Range) 10mA (TYP Value)
ine Regulation(Voltage)	0.005%+1mV	0.005%+1mV	0.005%+1mV	0.005%+1mV	0.02%+8mV	0.02%+8mV
ine Regulation(Current)	4mA	4mA	4mA	4mA	10mA	30mA
oltage Temperature Coefficient <sup>(4)</sup>					TOTIA	JUILA
Current Temperature Coefficient	150ppm/°C					
OVM Resolution	0.1mV	0.1mV	0.1mV	0.1mV	4mV	1mV
OVM Precision <sup>[1]</sup>	0.05%+15mV	0.05%+15mV	0.05%+15mV	0.05%+15mV	0.1%+30mV	0.1%+15mV
perating Mode	Constant voltage (CV) /		0.03%113111	0.03%113111	0.170130111	0.176+151110
Remote Compensation	4V MAX	constant current (00)				
Aaster-slave Control	Yes					
	165					
Response (Voltage Increase)		≤12ms	≤10ms	≤10ms	≤25ms	≤30ms
Response (Voltage Drop)	≤150ms (no load) ≤20ms (full load)	≤150ms (no load) ≤20ms (full load)	≤150ms (no load) ≤20ms (full load)	≤160ms (no load) ≤20ms (full load)	≤400ms (no load) ≤32ms (full load)	≤600ms (no load) ≤30ms (full load)
oad Transient Recovery Time	≤2ms	≤2ms	≤2ms	≤2ms	≤3ms	≤3ms
Command Response Time	50ms					
Series Capability <sup>16)</sup>	Up to 10 units	Up to 8 units	Up to 6 units			
Parallel Capability	Up to 10 units			1		1
Current Sharing <sup>17</sup>	9V	9V	12V	20V	40V	50V
fficiency (full load)	85%	86%	87%	88%	88%	87%
			Other			
Protection Function	OVP/OCP/OTP/OPP/S	CP/FOLDBACK				
Anti Reverse rrigation Protection	Yes					
nput Fuse	20A, 125VAC/250VAC, fast-acting type	30A, 125VAC/250VAC, fast-acting type	30A, 125VAC/250VAC, fast-acting type	30A, 125VAC/250VAC, fast-acting type	10A, 125VAC/250VAC, fast-acting type	10A, 125VAC/250VA fast-acting type
Init Weight/Shipping Weight	9.2kg/12kg	9.2kg/12kg	9.2kg/12kg	8.9kg/11.7kg	9.3kg/12.7kg	9.3kg/12.7kg
imensions(WxHxD)	423.0x44.0x447.0 mm					
Communication Modes	1. RS232/RS485/USB/L	AN; 2. RS232/RS485/	USB/LAN/GPIB			
perating Environment	Temperature 0~40°C, Re	elative Humidity 10%~90	%(no condensation); Pol	lution degree 2, Installatio	on category II, Indoor use	
Cooling Mode	Forced air-cooling					
Altitude	2000m					

 [1] Soutput for set, when output voltage less than 50, onset voltage is source.
 [2] Vp-p@20MHz, Vms@1.25MHz. The 20V/32V/40V/75V models voltage ripple is 50mVp-p/6mVrms @ 1V. For the 600V and 800V models, the voltage ripple from 0~5V is out of the range show above.
 [3] Arms@1.25MHz, the TYP Value is measured at the rated output voltage with 100% resistive load, and the measured value at full range of output voltage with 100% resistive load. is less than the Full Range value. [4] 0~40°C.

[5] Time for output voltage to recover within 0.5% (0.75% @800V models) of its rated output for a load change from 10% to 90% of its rated output current. Voltage set point from 10% to 90% of rated output.

[6] The communication must insulated users from output when using remote control and the output voltage exceeds 800VDC.
 [7] Current Share error le<(lav\*2.5% + 5% F.S) A, F.S is the full scale of the current. lav=lsum/n, where lav is average current, lsum is total current and n is number of parallel units. Note: Output voltage must be higher than 30% of maximum output voltage when Current Share function properly.

Model	SP20VDC1000W	SP32VDC1000W	SP40VDC1000W	SP75VDC1000W	SP150VDC1000W	SP200VDC1000W
nput Voltage	90~265VAC		Input			
nput Frequency	47~63Hz					
Power Factor	>0.98					
nput Power	1300VA(MAX)					
	100017((11)7)		Output			
output Voltage Range	0~20V	0~32V	0~40V	0~75V	0~150V	0~200V
utput Current Range	0~60A	0~50A	0~40A	0~25A	0~10A	0~8A
utput Power Range	0~1000W					
oltage Load Regulation	10mV	10mV	10mV	10mV	15mV	15mV
urrent Load Regulation	60mA	50mA	40mA	25mA	10mA	8mA
oltage Display Resolution	0.1mV	0.1mV	0.1mV	0.1mV	1mV	1mV
urrent Display Resolution	0.2mA	0.2mA	0.2mA	0.2mA	0.2mA	0.1mA
oltage Programmable Resolution	1.5mV	1.5mV	1.5mV	1.5mV	3mV	3mV
urrent Programmable Resolution		2mA	2mA	1mA	1mA	1mA
oltage Setting Accuracy <sup>[1]</sup>	0.05%+15mV	0.05%+15mV	0.05%+15mV	0.05%+15mV	0.1%+15mV	0.1%+15mV
urrent Setting Accuracy	0.1%+60mA	0.1%+50mA	0.1%+40mA	0.1%+25mA	0.1%+10mA	0.1%+8mA
oltage Measurement Accuracy (1)	0.05%+15mV	0.05%+15mV	0.05%+15mV	0.05%+15mV	0.1%+15mV	0.1%+15mV
urrent Measurement Accuracy	0.1%+60mA	0.1%+50mA	0.1%+40mA	0.1%+25mA	0.1%+10mA	0.1%+8mA
oltage Ripple <sup>[2]</sup>	40mVp-p 6mVrms	40mVp-p 6mVrms	40mVp-p 6mVrms	40mVp-p 6mVrms	120mVp-p 40mVrms	120mVp-p 40mVrms
current Ripple <sup>[3]</sup>	60mA (Full Range) 20mA (TYP Value)	50mA (Full Range) 20mA (TYP Value)	40mA (Full Range) 20mA (TYP Value)	25mA (Full Range) 10mA (TYP Value)	40mA (Full Range) 10mA (TYP Value)	40mA (Full Range) 10mA (TYP Value)
ine Regulation(Voltage)	0.005%+1mV	0.005%+1mV	0.005%+1mV	0.005%+1mV	0.02%+8mV	0.02%+8mV
ine Regulation(Current)	4mA	4mA	4mA	4mA	10mA	30mA
oltage Temperature Coefficient <sup>(4)</sup>	100ppm/°C					
urrent Temperature Coefficient [4]	150ppm/°C					
VM Resolution	0.1mV	0.1mV	0.1mV	0.1mV	4mV	1mV
VM Precision <sup>[1]</sup>	0.05%+15mV	0.05%+15mV	0.05%+15mV	0.05%+15mV	0.1%+30mV	0.1%+15mV
perating Mode	Constant voltage (CV)	Constant current (CC)				
emote Compensation	4V MAX					
laster-slave Control	Yes					
esponse (Voltage Increase)	≤10ms	≤12ms	≤10ms	≤10ms	≤25ms	≤30ms
esponse (Voltage Drop)	≤150ms (no load) ≤20ms (full load)	≤150ms (no load) ≤15ms (full load)	≤150ms (no load) ≤15ms (full load)	≤160ms (no load) ≤15ms (full load)	≤400ms (no load) ≤25ms (full load)	≤600ms (no load) ≤40ms (full load)
oad Transient Recovery Time <sup>(5)</sup>	≤2ms	≤2ms	≤2ms	≤2ms	≤3ms	≤3ms
ommand Response Time	50ms					
eries Capability 6	Up to 10 units	Up to 8 units	Up to 6 units			
arallel Capability	Up to 10 units					
urrent Sharing <sup>17</sup>	9V	9V	12V	20V	40V	50V
fficiency (full load)	85%	89%	89%	89%	89%	87%
			Other			
rotection Function	OVP/OCP/OTP/OPP/S	CP/FOLDBACK				
nti Reverse rigation Protection	Yes					
nput Fuse	20A, 125VAC/250VAC, fast-acting type	30A, 125VAC/250VA fast-acting type				
nit Weight/Shipping Weight	9.2kg/12kg	9.2kg/12kg	9.2kg/12kg	8.9kg/11.7kg	9.3kg/12.7kg	9.3kg/12.7kg
imensions(WxHxD)	423.0x44.0x447.0 mm	·		·	·	
ommunication Modes	1. RS232/RS485/USB/	LAN; 2. RS232/RS485/	USB/LAN/GPIB			
perating Environment				llution degree 2, Installatio	on category II, Indoor use	
ooling Mode	Forced air-cooling					
ltitude	2000m					

 (1) %output+offset, when output voltage less than 5v, offset voltage is solved.
 (2) Vp-p@20MHz, Vrms@1.25MHz. The 20V/32V/40V/75V models voltage ripple is 50mVp-p/6mVrms @ 1V. For the 600V and 800V models, the voltage ripple from 0~5V is out of the range show above.
 (3) Arms@1.25MHz, the TYP Value is measured at the rated output voltage with 100% resistive load, and the measured value at full range of output voltage with 100% resistive load. is less than the Full Range value.

[4] 0~40°C.

[5] Time for output voltage to recover within 0.5% (0.75% @800V models) of its rated output for a load change from 10% to 90% of its rated output current. Voltage set point from 10% to 90% of rated output.

[6] The communication must insulated users from output when using remote control and the output voltage exceeds 800VDC.

[7] Current Share error le<(lav<sup>2</sup> 2.5% + 5% F.5) A, FS is the full scale of the current. lav=lsum/n, where lav is average current, lsum is total current and n is number of parallel units. Note: Output voltage must be higher than 30% of maximum output voltage when Current Share function properly.

Model	SP20VDC1200W	SP32VDC1200W	SP40VDC1200W	SP75VDC1200W	SP150VDC1200W	SP200VDC1200W	
			Input				
nput Voltage	90~265VAC						
nput Frequency	47~63Hz						
Power Factor	>0.98						
nput Power	1500VA(MAX)						
			Output				
Output Voltage Range	0~20V	0~32V	0~40V	0~75V	0~150V	0~200V	
Output Current Range	0~60A	0~50A	0~40A	0~25A	0~10A	0~8A	
Output Power Range	0~1200W						
oltage Load Regulation	10mV	10mV	10mV	10mV	15mV	15mV	
Current Load Regulation	60mA	50mA	40mA	25mA	10mA	8mA	
oltage Display Resolution	0.1mV	0.1mV	0.1mV	0.1mV	1mV	1mV	
Current Display Resolution	0.2mA	0.2mA	0.2mA	0.2mA	0.2mA	0.1mA	
oltage Programmable Resolution	1.5mV	1.5mV	1.5mV	1.5mV	3mV	3mV	
urrent Programmable Resolution	2mA	2mA	2mA	1mA	1mA	1mA	
oltage Setting Accuracy <sup>[1]</sup>	0.05%+15mV	0.05%+15mV	0.05%+15mV	0.05%+15mV	0.1%+15mV	0.1%+15mV	
Current Setting Accuracy	0.1%+60mA	0.1%+50mA	0.1%+40mA	0.1%+25mA	0.1%+10mA	0.1%+8mA	
'oltage Measurement Accuracy <sup>[1]</sup>	0.05%+15mV	0.05%+15mV	0.05%+15mV	0.05%+15mV	0.1%+15mV	0.1%+15mV	
Current Measurement Accuracy	0.1%+60mA	0.1%+50mA	0.1%+40mA	0.1%+25mA	0.1%+10mA	0.1%+8mA	
/oltage Ripple <sup>[2]</sup>	40mVp-p 6mVrms	40mVp-p 6mVrms	40mVp-p 6mVrms	40mVp-p 6mVrms	120mVp-p 40mVrms	120mVp-p 40mVrms	
Current Ripple <sup>[3]</sup>	60mA (Full Range) 20mA (TYP Value)	50mA (Full Range) 20mA (TYP Value)	40mA (Full Range) 20mA (TYP Value)	25mA (Full Range) 10mA (TYP Value)	40mA (Full Range) 10mA (TYP Value)	40mA (Full Range) 10mA (TYP Value)	
ine Regulation(Voltage)	0.005%+1mV	0.005%+1mV	0.005%+1mV	0.005%+1mV	0.02%+8mV	0.02%+8mV	
ine Regulation(Current)	4mA	4mA	4mA	4mA	10mA	30mA	
oltage Temperature Coefficient <sup>#</sup>	100ppm/°C						
urrent Temperature Coefficient [4]	150ppm/°C						
OVM Resolution	0.1mV	0.1mV	0.1mV	0.1mV	4mV	1mV	
VM Precision <sup>[1]</sup>	0.05%+15mV	0.05%+15mV	0.05%+15mV	0.05%+15mV	0.1%+30mV	0.1%+15mV	
perating Mode	Constant voltage (CV) /						
Remote Compensation	4V MAX						
Aaster-slave Control	Yes						
Response (Voltage Increase)	≤10ms	≤10ms	≤10ms	≤10ms	≤25ms	≤30ms	
Response (Voltage Drop)	≤150ms (no load) ≤12ms (full load)	≤150ms (no load) ≤12ms (full load)	≤150ms (no load) ≤12ms (full load)	≤160ms (no load) ≤12ms (full load)	≤400ms (no load) ≤21ms (full load)	≤600ms (no load) ≤36ms (full load)	
oad Transient Recovery Time [5]	≤2ms	≤2ms	≤2ms	≤2ms	≤3ms	≤3ms	
command Response Time	50ms	22113	321113	321113	20113	20113	
eries Capability <sup>[6]</sup>	Up to 10 units	Up to 10 units	Up to 10 units	Up to 10 units	Up to 8 units	Up to 6 units	
Parallel Capability	Up to 10 units						
Current Sharing <sup>[7]</sup>	9V	9V	12V	20V	40V	50V	
Efficiency (full load)	84%	84%	89%	90%	89%	90%	
	04%	04%	Other	50%	09%	50%	
Protection Function	OVP/OCP/OTP/OPP/S	CP/FOLDBACK	other				
Anti Reverse rrigation Protection	Yes						
nput Fuse	20A, 125VAC/250VAC, fast-acting type	20A, 125VAC/250VAC, fast-acting type	30A, 125VAC/250VA fast-acting type				
Init Weight/Shipping Weight	9.2kg/12kg	9.2kg/12kg	9.2kg/12kg	8.9kg/11.7kg	9.3kg/12.7kg	9.3kg/12.7kg	
Dimensions(WxHxD)	423.0x44.0x447.0 mm						
Communication Modes	1. RS232/RS485/USB/I	_AN; 2. RS232/RS485/	USB/LAN/GPIB				
	Temperature 0~40°C, Re	elative Humidity 10%~90	%(no condensation); Pol	lution degree 2, Installatio	on category II, Indoor use		
perating Environment	Temperature 0~40°C, Relative Humidity 10%~90%(no condensation); Pollution degree 2, Installation category II, Indoor use.						
	Forced air-cooling						
Operating Environment Cooling Mode Nititude	Forced air-cooling 2000m						

%output+offset, when output voltage less than 5V, offset voltage is 30mV.
 Vp-p@20MHz, Vrms@1.25MHz. The 20V/32V/40V/75V models voltage ripple is 50mVp-p/6mVrms @ 1V. For the 600V and 800V models, the voltage ripple from 0~5V is out of the range show above.

[3] Arms@1.25MHz, the TYP Value is measured at the rated output voltage with 100% resistive load, and the measured value at full range of output voltage with 100% resistive load is less than the Full Range value.

[4] 0~40°C.

[5] Time for output voltage to recover within 0.5% (0.75% @800V models) of its rated output for a load change from 10% to 90% of its rated output current. Voltage set point from 10% to 90% of rated output. [6] The communication must insulated users from output when using remote control and the output voltage exceeds 800VDC.

[7] Current Share error le<(lav<sup>2</sup>.5% + 5%, FS) is the full scale of the current. lav=lsum/n, where lav is average current, lsum is total current and n is number of parallel units. Note: Output voltage must be higher than 30% of maximum output voltage when Current Share function properly.

Model	SP75VDC1500W	SP150VDC1500W	SP200VDC1500W
		Input	
Input Voltage	90~265VAC		
Input Frequency	47~63Hz		
Power Factor	>0.98		
Input Power	1900VA(MAX)		
		Output	
Output Voltage Range	0~75V	0~150V	0~200V
Output Current Range	0~25A	0~10A	0~8A
Output Power Range	0~1500W		
Voltage Load Regulation	10mV	15mV	15mV
Current Load Regulation	25mA	10mA	8mA
Voltage Display Resolution	0.1mV	1mV	1mV
Current Display Resolution	0.2mA	0.2mA	0.1mA
Voltage Programmable Resolution	1.5mV	3mV	3mV
Current Programmable Resolution	1mA	1mA	1mA
Voltage Setting Accuracy <sup>[1]</sup>	0.05%+15mV	0.05%+15mV	0.05%+15mV
Current Setting Accuracy	0.1%+25mA	0.1%+10mA	0.1%+8mA
Voltage Measurement Accuracy <sup>[1]</sup>	0.05%+15mV	0.1%+15mV	0.1%+15mV
Current Measurement Accuracy	0.1%+25mA	0.1%+10mA	0.1%+8mA
Voltage Ripple <sup>[2]</sup>	40mVp-p 6mVrms	120mVp-p 40mVrms	120mVp-p 40mVrms
Current Ripple	25mA (Full Range) 10mA (TYP Value)	40mA (Full Range) 10mA (TYP Value)	40mA (Full Range) 10mA (TYP Value)
Line Regulation(Voltage)	0.005%+2mV	0.02%+8mV	0.02%+8mV
Line Regulation(Current)	4mA	10mA	30mA
Voltage Temperature Coefficient 14	100ppm/°C		
Current Temperature Coefficient [4]	150ppm/°C		
DVM Resolution	0.1mV	4mV	1mV
DVM Precision [1]	0.05%+15mV	0.1%+30mV	0.1%+15mV
Operating Mode	Constant voltage (CV) / Constant current (CC)		
Remote Compensation	4V MAX		
Master-slave Control	Yes		
Response (Voltage Increase)	≤10ms	≤25ms	≤30ms
Response (Voltage Drop)	≤160ms (no load) ≤10ms (full load)	≤400ms (no load) ≤18ms (full load)	≤600ms (no load) ≤30ms (full load)
Load Transient Recovery Time	≤2ms	≤3ms	≤3ms
Command Response Time	50ms		
Series Capability [6]	Up to 10 units	Up to 8 units	Up to 6 units
Parallel Capability	Up to 10 units		
Current Sharing 7	20V	40V	50V
Efficiency (full load)	91%	90%	91%
	·	Other	·
Protection Function	OVP/OCP/OTP/OPP/SCP/FOLDBACK		
Anti Reverse Irrigation Protection	Yes		
Input Fuse	30A, 125VAC/250VAC, fast-acting type		
Unit Weight/Shipping Weight	8.9kg/11.7kg	9.3kg/12.7kg	9.3kg/12.7kg
Dimensions(WxHxD)	423.0x44.0x447.0 mm		J. J.
Communication Modes	1. RS232/RS485/USB/LAN; 2. RS232/RS485	/USB/LAN/GPIB 0%(no condensation); Pollution degree 2, Installat	ion estagory II. Indoor use
Operating Environment		o regine condensation), Ponution degree 2, mistalian	מסוו כעובטטוץ זו, וועטטו עצפ.
Cooling Mode	Forced air-cooling		
Altitude	2000m	PE 0101//P0	
Insulation	AC input <->DC output, 4242VDC, AC input <-> ut voltage less than 5V offset voltage is 30mV.	• PE, 2121VDC	

[1] %output+offset, when output voltage less than 5V, offset voltage is 30mV.

 [2] Vp-p@20MHz, Vms@1.25MHz.
 [3] Arms@1.25MHz, the TYP Value is measured at the rated output voltage with 100% resistive load, and the measured value at full range of output voltage with 100% resistive load. is less than the Full Range value. [4] 0~40°C.

[5] Time for output voltage to recover within 0.5% (0.75% @800V models) of its rated output for a load change from 10% to 90% of its rated output current. Voltage set point from 10% to 90% of rated output.

[6] The communication must insulated users from output when using remote control and the output voltage exceeds 800VDC.
 [7] Current Share error le<(lav\*2.5% + 5% F.S) A, F.S is the full scale of the current. lav=lsum/n, where lav is average current, lsum is total current and n is number of parallel units. Note: Output voltage must be higher than 30% of maximum output voltage when Current Share function properly.

Model	SP32VDC1600W		SP40VDC1600W
		Input	
Input Voltage	90~265VAC		
Input Frequency	47~63Hz		
Power Factor	>0.98		
Input Power	2000VA(MAX)		
		Output	
Output Voltage Range	0~32V		0~40V
Output Current Range	0~50A		0~40A
Output Power Range	0~1600W		
Voltage Load Regulation	10mV		
Current Load Regulation	50mA		40mA
Voltage Display Resolution	0.1mV		
Current Display Resolution	0.2mA		
Voltage Programmable Resolution	1.5mV		
Current Programmable Resolution	2mA		
Voltage Setting Accuracy <sup>[1]</sup>	0.05%+15mV		
Current Setting Accuracy	0.1%+50mA		0.1%+40mA
Voltage Measurement Accuracy <sup>[1]</sup>	0.05%+15mV		0.05%+15mV
Current Measurement Accuracy	0.1%+50mA		0.1%+40mA
Voltage Ripple <sup>[2]</sup>	40mVp-p 6mVrms		
Current Ripple <sup>[3]</sup>	50mA (Full Range) 20mA (TYP Value)		40mA (Full Range) 20mA (TYP Value)
Line Regulation(Voltage)	0.005%+1mV		
Line Regulation(Current)	4mA		
Voltage Temperature Coefficient <sup>[4]</sup>	100ppm/°C		
Current Temperature Coefficient [4	150ppm/°C		
DVM Resolution	0.1mV		
DVM Precision [1]	0.05%+15mV		
Operating Mode	Constant voltage (CV) / Constant current (CC)		
Remote Compensation	4V MAX		
Master-slave Control	Yes		
Response (Voltage Increase)	≤12ms		≤10ms
Response (Voltage Drop)	≤150ms (no load) ≤10ms (full load)		
Load Transient Recovery Time [5]	≤2ms		
Command Response Time	50ms		
Series Capability [6]	Up to 10 units		
Parallel Capability	Up to 10 units		
Current Sharing <sup>17</sup>	9V		12V
Efficiency (full load)	89%		90%
		Other	
Protection Function	OVP/OCP/OTP/OPP/SCP/FOLDBACK		
Anti Reverse Irrigation Protection	Yes		
Input Fuse	30A, 125VAC/250VAC, fast-acting type		
Unit Weight/Shipping Weight	9.2kg/12kg		
Dimensions(WxHxD)	423.0x44.0x447.0 mm		
Communication Modes	1. RS232/RS485/USB/LAN; 2. RS232/RS485/US	B/LAN/GPIB	
Operating Environment	Temperature 0~40°C, Relative Humidity 10%~90%(r		ition degree 2, Installation category II, Indoor use.
Cooling Mode	Forced air-cooling	,, ,,	
Altitude	2000m		
Insulation	AC input <->DC output, 4242VDC, AC input <-> PE	2121VDC	
	it voltage less than 5V, offset voltage is 30mV.	, 2.21100	

[1] %output+offset, when output voltage less than 5V, offset voltage is 30mV. [2] Vp-p@20MHz, Vrms@1.25MHz.

The 20V/32V/40V/75V models voltage ripple is 50mVp-p/6mVrms @ 1V. For the 600V and 800V models, the voltage ripple from 0~5V is out of the range show above. [3] Arms@1.25MHz, the TYP Value is measured at the rated output voltage with 100% resistive load, and the measured value at full range of output voltage with 100% resistive load. is less than the Full Range value. [4] 0~40°C.

[5] Time for output voltage to recover within 0.5% (0.75% @800V models) of its rated output for a load change from 10% to 90% of its rated output current. Voltage set point from 10% to 90% of rated output.

[6] The communication must insulated users from output when using remote control and the output voltage exceeds 800VDC.

[7] Current Share error le<(lav\*2.5% + 5% F.S) A, F.S is the full scale of the current. lav=lsum/n, where lav is average current, lsum is total current and n is number of parallel units. Note: Output voltage must be higher than 30% of maximum output voltage when Current Share function properly.

#### 1000W in 2U(1)

Model	SPS32VDC1000W	SPS40VDC1000W	SPS80VDC1000W	SPS120VDC1000W
		Input		
Input Voltage	90~265VAC			
Input Frequency	47~63Hz			
Power Factor	>0.98	>0.98	>0.97	>0.98
Input Power	1500VA(MAX)	1300VA(MAX)	1200VA(MAX)	1300VA(MAX)
		Output		
Output Voltage Range	0~32V	0~40V	0~80V	0~120V
Output Current Range	0~200A	0~120A	0~60A	0~40A
Output Power Range	0~1000W			
Voltage Load Regulation	30mV	15mV	15mV	15mV
Current Load Regulation	200mA	120mA	60mA	40mA
Voltage Display Resolution	0.1mV	0.1mV	0.1mV	1mV
Current Display Resolution	1mA	1mA	0.2mA	0.1mA
Voltage Programmable Resolution	1mV	1mV	1.5mV	3mV
Current Programmable Resolution		3mA	2mA	1mA
Voltage Setting Accuracy <sup>[1]</sup>	0.05%+15mV	0.05%+15mV	0.05%+15mV	0.1%+15mV
Current Setting Accuracy	0.1%+200mA	0.1%+120mA	0.1%+60mA	0.1%+40mA
Voltage Measurement Accuracy <sup>(1)</sup>	0.05%+15mV	0.05%+15mV	0.05%+15mV	0.1%+15mV
Current Measurement Accuracy	0.1%+200mA	0.1%+120mA	0.1%+60mA	0.1%+40mA
Voltage Ripple <sup>[2]</sup>	60mVp-p 10mVrms	40mVp-p 6mVrms	40mVp-p 6mVrms	80mVp-p 15mVrms
Current Ripple 🔋	400mA (Full Range) 200mA (TYP Value)	150mA (Full Range) 20mA (TYP Value)	50mA (Full Range) 10mA (TYP Value)	60mA (Full Range) 10mA (TYP Value)
Line Regulation(Voltage)	0.01%+8mV	0.02%+8mV	0.01%+8mV	0.02%+8mV
Line Regulation(Current)	200mA	30mA	30mA	40mA
Voltage Temperature Coefficient <sup>(4)</sup>	100ppm/°C	oonin t		
Current Temperature Coefficient [4]	150ppm/°C			
DVM Resolution	0.1mV	0.1mV	0.1mV	1mV
DVM Precision <sup>[1]</sup>	0.05%+15mV	0.05%+15mV	0.05%+15mV	0.1%+15mV
Operating Mode	Constant voltage (CV) / Constant c			
Remote Compensation	4V MAX	4V MAX	4V MAX	5V MAX
Master-slave Control	Yes		4V WAX	ov m/ox
Response (Voltage Increase)	≤20ms (no load) ≤40ms (full load)	≤10ms	≤15ms	≤20ms
Response (Voltage Drop)	≤500ms (no load) ≤45ms (full load)	≤350ms (no load) ≤10ms (full load)	≤450ms (no load) ≤30ms (full load)	≤350ms (no load) ≤21ms (full load)
Load Transient Recovery Time [5]	≤2ms	2.101110 (141110443)	200110 (10111000)	-221110 (101110000)
Command Response Time	50ms			
Series Capability <sup>[6]</sup>	Up to 10 units			
Parallel Capability	Up to 10 units			
Current Sharing <sup>[7]</sup>	12V	12V	20V	30V
Efficiency (full load)	85%	87%	89%	88%
		Other	0.07/0	
Protection Function	OVP/OCP/OTP/OPP/SCP/FOLDB			
Anti Reverse Irrigation Protection	No(customers can purchase other accessorie to achieve this function, please consult the		Yes	Yes
Input Fuse	salesrepresentative for details) 20A, 125VAC/250VAC, fast-acting type	30A, 125VAC/250VAC, fast-acting type	30A, 125VAC/250VAC, fast-acting type	30A, 125VAC/250VAC, fast-acting type
Jnit Weight/Shipping Weight				
Dimensions(WxHxD)	14.7kg/18.7kg 423.0x87.0x514.0 mm	14.7kg/18.7kg 423.0x87.0x514.0 mm	13.2kg/16.8kg 423.0x87.0x469.0 mm	13.2kg/16.8kg 423.0x87.0x469.0 mm
Communication Modes			+23.0x07.0x409.0 mm	420.0x07.0x407.0 mill
	1. RS232/RS485/USB/LAN; 2. RS		n); Pollution degree 2, Installation cate	
Operating Environment Cooling Mode	•		i, Fondion degree 2, instandion Cale	gory II, muoor use.
Altitude	Forced air-cooling			
	2000m			

[1] %output+offset, when output voltage less than 5V, offset voltage is 30mV.

[2] Vp-p@20MHz, Vrms@1.25MHz.

The 20V/32V/40V/75V models voltage ripple is 50mVp-p/6mVrms @ 1V. For the 600V and 800V models, the voltage ripple from 0~5V is out of the range show above. [3] Arms@1.25MHz, the TYP Value is measured at the rated output voltage with 100% resistive load, and the measured value at full range of output voltage with 100% resistive load. is less than the Full Range value.

[4] 0~40°C.

[5] Time for output voltage to recover within 0.5% (0.75% @800V models) of its rated output for a load change from 10% to 90% of its rated output current. Voltage set point from 10% to 90% of rated output.

[6] The communication must insulated users from output when using remote control and the output voltage exceeds 800VDC.

[7] Current Share error le<(lav\*2.5% + 5% F.S) A, F.S is the full scale of the current. lav=lsum/n, where lav is average current, lsum is total current and n is number of parallel units. Note: Output voltage must be higher than 30% of maximum output voltage when Current Share function properly.

#### 1000W in 2U(2)

Model	SPS150VDC1000W	SPS200VDC1000W	SPS600VDC1000W	SPS800VDC1000W
		Input		
nput Voltage	90~265VAC			
nput Frequency	47~63Hz			
Power Factor	>0.98			
nput Power	1300VA(MAX)			
	_	Output		
Output Voltage Range	0~150V	0~200V	0~600V	0~800V
output Current Range	0~30A	0~24A	0~10A	0~7.5A
Output Power Range	0~1000W			
oltage Load Regulation	15mV	15mV	30mV	200mV
urrent Load Regulation	30mA	24mA	10mA	20mA
oltage Display Resolution	1mV			
current Display Resolution	0.1mA			
oltage Programmable Resolution		4mV	12mV	24mV
urrent Programmable Resolution	1mA			
/oltage Setting Accuracy <sup>[1]</sup>	0.1%+15mV	0.1%+15mV	0.05%+150mV	0.05%+200mV
urrent Setting Accuracy	0.1%+30mA	0.1%+24mA	0.1%+10mA	0.1%+7.5mA
'oltage Measurement Accuracy <sup>[1]</sup>	0.1%+15mV	0.1%+15mV	0.05%+150mV	0.05%+200mV
urrent Measurement Accuracy	0.1%+30mA	0.1%+24mA	0.1%+10mA	0.1%+7.5mA
/oltage Ripple <sup>[2]</sup>	80mVp-p 15mVrms	150mVp-p 30mVrms	350mVp-p 40mVrms	800mVp-p 200mVrms
Current Ripple <sup>[3]</sup>	60mA (Full Range) 10mA (TYP Value)	50mA (Full Range) 20mA (TYP Value)	25mA (Full Range) 10mA (TYP Value)	25mA (Full Range) 10mA (TYP Value)
ine Regulation(Voltage)	0.02%+8mV	0.02%+8mV	0.01%+30mV	0.01%+40mV
ine Regulation(Current)	30mA	30mA	15mA	15mA
oltage Temperature Coefficient [4]	100ppm/°C			
Current Temperature Coefficient [4	150ppm/°C			
VM Resolution	1mV	1mV	12mV	12mV
VM Precision [1]	0.1%+15mV	0.1%+15mV	0.05%+150mV	0.05%+200mV
perating Mode	Constant voltage (CV) / Consta	ant current (CC)		
emote Compensation	5V MAX			
laster-slave Control	Yes			
esponse (Voltage Increase)	≤25ms	≤30ms	≤60ms	≤60ms
Response (Voltage Drop)	≤500ms (no load) ≤25ms (full load)	≤500ms (no load) ≤35ms (full load)	≤800ms (no load) ≤110ms (full load)	≤800ms (no load) ≤60ms (full load)
oad Transient Recovery Time [5]	≤2ms	≤2ms	≤3ms	≤3ms
ommand Response Time	50ms			
eries Capability 6	Up to 8 units	Up to 6 units	Up to 2 units	Not Recommended
arallel Capability	Up to 10 units			
urrent Sharing <sup>[7]</sup>	40V	50V	200V	250V
fficiency (full load)	88%	88%	86%	85%
		00% Other	00/0	0.0 %
Protection Function	OVP/OCP/OTP/OPP/SCP/FO			
Anti Reverse rrigation Protection	Yes			
nput Fuse	30A, 125VAC/250VAC, fast-acting type			
nit Weight/Shipping Weight	13.2kg/16.8kg	14.7kg/18.7kg	13.2kg/16.8kg	13.2kg/16.8kg
imensions(WxHxD)	423.0x87.0x469.0 mm	423.0x87.0x469.0 mm	423.0x87.0x514.0 mm	423.0x87.0x514.0 mm
Communication Modes	1. RS232/RS485/USB/LAN;	2. RS232/RS485/USB/LAN/GPIB		
Operating Environment	Temperature 0~40°C, Relative	Humidity 10%~90%(no condensation	); Pollution degree 2, Installation cate	gory II, Indoor use.
Cooling Mode	Forced air-cooling			
Altitude	2000m			

[1] %output+offset, when output voltage less than 5V, offset voltage is 30mV.

 [1] Soluputoriset, when output voltage less than 50, oriset rotage is solution.
 [2] Vp-p@20MHz, Vms@1.25MHz. The 20V/32V/40V/75V models voltage ripple is 50mVp-p/6mVrms @ 1V. For the 600V and 800V models, the voltage ripple from 0~5V is out of the range show above.
 [3] Arms@1.25MHz, the TYP Value is measured at the rated output voltage with 100% resistive load, and the measured value at full range of output voltage with 100% resistive load. is less than the Full Range value. [4] 0~40°C.

[5] Time for output voltage to recover within 0.5% (0.75% @800V models) of its rated output for a load change from 10% to 90% of its rated output current. Voltage set point from 10% to 90% of rated output.

[6] The communication must insulated users from output when using remote control and the output voltage exceeds 800VDC.

[7] Current Share error le<(lav\*2.5% + 5% F.S) A, F.S is the full scale of the current. lav=lsum/n, where lav is average current, lsum is total current and n is number of parallel units. Note: Output voltage must be higher than 30% of maximum output voltage when Current Share function properly.

#### 2000W in 2U(1)

Model	SP32VDC2000W	SP40VDC2000W	SP80VDC2000W	SP120VDC2000W
		Input		
Input Voltage	190~265VAC			
Input Frequency	47~63Hz			
Power Factor	>0.98			
Input Power	2600VA(MAX)	2400VA(MAX)	2400VA(MAX)	2400VA(MAX)
		Output		
Output Voltage Range	0~32V	0~40V	0~80V	0~120V
Output Current Range	0~200A	0~120A	0~60A	0~40A
Output Power Range	0~2000W			
Voltage Load Regulation	30mV	15mV	15mV	15mV
Current Load Regulation	200mA	120mA	60mA	40mA
Voltage Display Resolution	0.1mV	0.1mV	0.1mV	1mV
Current Display Resolution	1mA	1mA	0.2mA	0.1mA
/oltage Programmable Resolution	1mV	1mV	1.5mV	3mV
Current Programmable Resolution	6mA	3mA	2mA	1mA
Voltage Setting Accuracy <sup>[1]</sup>	0.05%+15mV	0.05%+15mV	0.05%+15mV	0.1%+15mV
Current Setting Accuracy	0.1%+200mA	0.1%+120mA	0.1%+60mA	0.1%+40mA
/oltage Measurement Accuracy <sup>[1]</sup>	0.05%+15mV	0.05%+15mV	0.05%+15mV	0.1%+15mV
Current Measurement Accuracy	0.1%+200mA	0.1%+120mA	0.1%+60mA	0.1%+40mA
/oltage Ripple <sup>[2]</sup>	60mVp-p 10mVrms	40mVp-p 6mVrms	40mVp-p 6mVrms	80mVp-p 15mVrms
Current Ripple <sup>[3]</sup>	400mA (Full Range) 200mA (TYP Value)	150mA (Full Range) 20mA (TYP Value)	50mA (Full Range) 10mA (TYP Value)	60mA (Full Range) 10mA (TYP Value)
Line Regulation(Voltage)	0.01%+8mV	0.01%+8mV	0.01%+8mV	0.02%+8mV
ine Regulation(Current)	200mA	30mA	30mA	30mA
/oltage Temperature Coefficient <sup> 4 </sup>	100ppm/°C			
Current Temperature Coefficient <sup>[4]</sup>	150ppm/°C			
OVM Resolution	0.1mV	0.1mV	0.1mV	1mV
OVM Precision <sup>[1]</sup>	0.05%+15mV	0.05%+15mV	0.05%+15mV	0.1%+15mV
Dperating Mode	Constant voltage (CV) / Constant c	urrent (CC)		
Remote Compensation	4V MAX	4V MAX	4V MAX	5V MAX
Aaster-slave Control	Yes			
Response (Voltage Increase)	≤20ms (no load) ≤30ms (full load)	≤10ms	≤15ms	≤20ms
Response (Voltage Drop)	≤500ms (no load) ≤30ms (full load)	≤350ms (no load) ≤10ms (full load)	≤450ms (no load) ≤30ms (full load)	≤350ms (no load) ≤21ms (full load)
oad Transient Recovery Time <sup>(5)</sup>	≤2ms	≤2ms	≤2ms	≤3ms
Command Response Time	50ms			
Series Capability 6	Up to 10 units	Up to 10 units	Up to 10 units	Up to 8 units
Parallel Capability	Up to 10 units			
Current Sharing <sup>[7]</sup>	12V	12V	20V	30V
Efficiency (full load)	91%	88%	89%	89%
		Other		
Protection Function	OVP/OCP/OTP/OPP/SCP/FOLDB			
Anti Reverse rrigation Protection	No(customers can purchase other accessorie to achieve this function, please consult the salesrepresentative for details)		Yes	Yes
nput Fuse	20A, 125VAC/250VAC, fast-acting type	30A, 125VAC/250VAC, fast-acting type	30A, 125VAC/250VAC, fast-acting type	30A, 125VAC/250VAC, fast-acting type
Jnit Weight/Shipping Weight	14.7kg/18.7kg	14.7kg/18.7kg	13.2kg/16.8kg	13.2kg/16.8kg
Dimensions(WxHxD)	423.0x87.0x514.0 mm	423.0x87.0x514.0 mm	423.0x87.0x469.0 mm	423.0x87.0x469.0 mm
Communication Modes	1. RS232/RS485/USB/LAN; 2. R			
Operating Environment			n); Pollution degree 2, Installation cate	gory II, Indoor use.
Cooling Mode	Forced air-cooling	,	,,,,,,,	, ,
Altitude	2000m			

[1] %output+offset, when output voltage less than 5V, offset voltage is 30mV. [2] Vp-p@20MHz, Vrms@1.25MHz.

[2] VP plozowitz, vitilog: 1.20witz.
 [3] Arms@1.25MHz, the TYP Value is measured at the rated output voltage with 100% resistive load, and the measured value at full range of output voltage with 100% resistive load is less than the Full Range value.

[4] 0~40°C.

[5] Time for output voltage to recover within 0.5% (0.75% @800V models) of its rated output for a load change from 10% to 90% of its rated output current. Voltage set point from 10% to 90% of rated output.

[6] The communication must insulated users from output when using remote control and the output voltage exceeds 800VDC.

[7] Current Share error le<(lav\*2.5% + 5% F.S) A, F.S is the full scale of the current. lav=lsum/n, where lav is average current, lsum is total current and n is number of parallel units. Note: Output voltage must be higher than 30% of maximum output voltage when Current Share function properly.

#### 2000W in 2U(2)

Model	SP150VDC2000W	SP200VDC2000W	SP600VDC2000W	SP800VDC2000W
		Input		
nput Voltage	190~265VAC			
nput Frequency	47~63Hz			
Power Factor	>0.98			
nput Power	2400VA(MAX)			
		Output		
Output Voltage Range	0~150V	0~200V	0~600V	0~800V
Output Current Range	0~30A	0~24A	0~10A	0~7.5A
output Power Range	0~2000W			
oltage Load Regulation	15mV	15mV	30mV	200mV
Current Load Regulation	30mA	24mA	10mA	20mA
oltage Display Resolution	1mV			
Current Display Resolution	0.1mA			
oltage Programmable Resolution	3mV	4mV	12mV	24mV
Current Programmable Resolution	1mA			
/oltage Setting Accuracy [1]	0.1%+15mV	0.1%+15mV	0.05%+150mV	0.05%+200mV
Current Setting Accuracy	0.1%+30mA	0.1%+24mA	0.1%+10mA	0.1%+7.5mA
/oltage Measurement Accuracy <sup>[1]</sup>	0.1%+15mV	0.1%+15mV	0.05%+150mV	0.05%+200mV
Current Measurement Accuracy	0.1%+30mA	0.1%+24mA	0.1%+10mA	0.1%+7.5mA
/oltage Ripple <sup>[2]</sup>	40mVp-p 6mVrms	150mVp-p 30mVrms	350mVp-p 40mVrms	800mVp-p 200mVrms
Current Ripple <sup>[3]</sup>	60mA (Full Range) 10mA (TYP Value)	50mA (Full Range) 20mA (TYP Value)	25mA (Full Range) 10mA (TYP Value)	25mA (Full Range) 10mA (TYP Value)
ine Regulation(Voltage)	0.02%+8mV	0.02%+8mV	0.01%+30mV	0.01%+40mV
ine Regulation(Current)	30mA	30mA	15mA	20mA
/oltage Temperature Coefficient <sup>[4]</sup>	100ppm/°C			
Current Temperature Coefficient <sup>[4]</sup>	150ppm/°C			
VM Resolution	1mV	1mV	12mV	12mV
VM Precision <sup>[1]</sup>	0.1%+15mV	0.1%+15mV	0.05%+150mV	0.05%+200mV
perating Mode	Constant voltage (CV) / Consta	ant current (CC)		
Remote Compensation	5V MAX			
laster-slave Control	Yes			
Response (Voltage Increase)	≤25ms	≤30ms	≤60ms	≤60ms
Response (Voltage Drop)	≤500ms (no load) ≤25ms (full load)	≤500ms (no load) ≤20ms (full load)	≤800ms (no load) ≤90ms (full load)	≤800ms (no load) ≤60ms (full load)
oad Transient Recovery Time <sup>(5)</sup>	≤3ms			
command Response Time	50ms			
Series Capability 6	Up to 8 units	Up to 6 units	Up to 2 units	Not Recommended
Parallel Capability	Up to 10 units		•	
Current Sharing <sup>[7]</sup>	40V	50V	200V	250V
fficiency (full load)	90%	90%	90%	91%
		Other		
Protection Function	OVP/OCP/OTP/OPP/SCP/FO			
Anti Reverse rrigation Protection	Yes			
nput Fuse	30A, 125VAC/250VAC, fast-acting type	30A, 125VAC/250VAC, fast-acting type	20A, 125VAC/250VAC, fast-acting type	20A, 125VAC/250VAC, fast-acting type
Jnit Weight/Shipping Weight	13.2kg/16.8kg	13.2kg/16.8kg	14.7kg/18.7kg	14.7kg/18.7kg
Dimensions(WxHxD)	423.0x87.0x469.0 mm	423.0x87.0x469.0 mm	423.0x87.0x514.0 mm	423.0x87.0x514.0 mm
Communication Modes		2. RS232/RS485/USB/LAN/GPIB		
Operating Environment		Humidity 10%~90%(no condensation	); Pollution degree 2, Installation cate	gory II, Indoor use.
Cooling Mode	Forced air-cooling			
Altitude	2000m			
nsulation	AO : DO 40401/	DC, AC input <-> PE, 2121VDC		

 [1] %output+offset, when output voltage less than 5V, offset voltage is 30mV.
 [2] Vp-p@20MHz, Vrms@1.25MHz.
 The 20V/32V/40V/75V models voltage ripple is 50mVp-p/6mVrms @ 1V. For the 600V and 800V models, the voltage ripple from 0~5V is out of the range show above.
 [3] Arms@1.25MHz, the TYP Value is measured at the rated output voltage with 100% resistive load, and the measured value at full range of output voltage with 100% resistive load. is less than the Full Range value. [4] 0~40°C.

[5] Time for output voltage to recover within 0.5% (0.75% @800V models) of its rated output for a load change from 10% to 90% of its rated output current. Voltage set point from 10% to 90% of rated output.

[6] The communication must insulated users from output when using remote control and the output voltage exceeds 800VDC.
 [7] Current Share error le<(lav\*2.5% + 5% F.S) A, F.S is the full scale of the current. lav=lsum/n, where lav is average current, lsum is total current and n is number of parallel units. Note: Output voltage must be higher than 30% of maximum output voltage when Current Share function properly.

#### **3000W in 2U(1)**

Model	SP32VDC3000W	SP40VDC3000W	SP80VDC3000W	SP120VDC3000W
		Input		
Input Voltage	190~265VAC			
Input Frequency	47~63Hz			
Power Factor	>0.98			
Input Power	3700VA(MAX)	3400VA(MAX)	3400VA(MAX)	3400VA(MAX)
		Output		
Output Voltage Range	0~32V	0~40V	0~80V	0~120V
Output Current Range	0~200A	0~120A	0~60A	0~40A
Output Power Range	0~3000W			
Voltage Load Regulation	30mV	15mV	15mV	15mV
Current Load Regulation	200mA	120mA	60mA	40mA
Voltage Display Resolution	0.1mV	0.1mV	0.1mV	1mV
Current Display Resolution	1mA	1mA	0.2mA	0.1mA
/oltage Programmable Resolution	1mV	1mV	1.5mV	3mV
Current Programmable Resolution	6mA	2mA	2mA	1mA
Voltage Setting Accuracy <sup>[1]</sup>	0.05%+15mV	0.05%+15mV	0.05%+15mV	0.1%+15mV
Current Setting Accuracy	0.1%+200mA	0.1%+120mA	0.1%+60mA	0.1%+40mA
Voltage Measurement Accuracy <sup>[1]</sup>	0.05%+15mV	0.05%+15mV	0.05%+15mV	0.1%+15mV
Current Measurement Accuracy	0.1%+200mA	0.1%+120mA	0.1%+60mA	0.1%+40mA
Voltage Ripple <sup>[2]</sup>	60mVp-p 10mVrms	40mVp-p 6mVrms	40mVp-p 6mVrms	80mVp-p 15mVrms
Current Ripple <sup>[3]</sup>	400mA (Full Range) 200mA (TYP Value)	150mA (Full Range) 20mA (TYP Value)	50mA (Full Range) 10mA (TYP Value)	60mA (Full Range) 10mA (TYP Value)
Line Regulation(Voltage)	0.01%+8mV	0.01%+8mV	0.01%+8mV	0.02%+8mV
ine Regulation(Current)	200mA	30mA	30mA	30mA
Voltage Temperature Coefficient <sup>(4)</sup>	100ppm/°C		· · · · · ·	
Current Temperature Coefficient [4]	150ppm/°C			
DVM Resolution	0.1mV	0.1mV	0.1mV	1mV
DVM Precision <sup>[1]</sup>	0.05%+15mV	0.05%+15mV	0.05%+15mV	0.1%+15mV
Operating Mode	Constant voltage (CV) / Constant c	urrent (CC)		
Remote Compensation	4V MAX	4V MAX	4V MAX	5V MAX
Master-slave Control	Yes			
Response (Voltage Increase)	≤20ms (no load) ≤20ms (full load)	≤10ms	≤15ms	≤20ms
Response (Voltage Drop)	≤500ms (no load) ≤25ms (full load)	≤350ms (no load) ≤10ms (full load)	≤450ms (no load) ≤30ms (full load)	≤350ms (no load) ≤21ms (full load)
Load Transient Recovery Time <sup>[5]</sup>	≤2ms			
Command Response Time	50ms			
Series Capability <sup>[6]</sup>	Up to 10 units			
Parallel Capability	Up to 10 units			
Current Sharing <sup>[7]</sup>	12V	12V	20V	30V
Efficiency (full load)	91%	88%	91%	91%
		Other		
Protection Function	OVP/OCP/OTP/OPP/SCP/FOLDB/			
Anti Reverse Irrigation Protection	No(customers can purchase other accessorie to achieve this function, please consult the		Yes	Yes
nput Fuse	salesrepresentative for details) 30A, 125VAC/250VAC, fast-acting type	40A, 125VAC/250VAC, fast-acting type	40A, 125VAC/250VAC, fast-acting type	40A, 125VAC/250VAC, fast-acting type
Jnit Weight/Shipping Weight	14.7kg/18.7kg	14.7kg/18.7kg	13.2kg/16.8kg	13.2kg/16.8kg
Dimensions(WxHxD)	423.0x87.0x514.0 mm	423.0x87.0x514.0 mm	423.0x87.0x469.0 mm	423.0x87.0x469.0 mm
Communication Modes	1. RS232/RS485/USB/LAN; 2. RS		12010/07/10/10/10/11	12010/10/10/10/10/10/10
			): Dollution dogroo 2. Installation acts	
Operating Environment	•	iuity 10%~90%(no condensation	); Pollution degree 2, Installation cate	yory n, maoor use.
Cooling Mode	Forced air-cooling			
Altitude	2000m			

[1] %output+offset, when output voltage less than 5V, offset voltage is 30mV.

[2] Vp-p@20MHz, Vrms@1.25MHz.

The 20V/32V/40V/75V models voltage ripple is 50mVp-p/6mVrms @ 1V. For the 600V and 800V models, the voltage ripple from 0~5V is out of the range show above. [3] Arms@1.25MHz, the TYP Value is measured at the rated output voltage with 100% resistive load, and the measured value at full range of output voltage with 100% resistive load. is less than the Full Range value.

[4] 0~40°C.

[5] Time for output voltage to recover within 0.5% (0.75% @800V models) of its rated output for a load change from 10% to 90% of its rated output current. Voltage set point from 10% to 90% of rated output.

[6] The communication must insulated users from output when using remote control and the output voltage exceeds 800VDC.

[7] Current Share error le<(lav\*2.5% + 5% F.S) A, F.S is the full scale of the current. lav=lsum/n, where lav is average current, lsum is total current and n is number of parallel units. Note: Output voltage must be higher than 30% of maximum output voltage when Current Share function properly.

#### **3000W in 2U(2)**

Model	SP150VDC3000W	SP200VDC3000W	SP600VDC3000W	SP800VDC3000W
		Input		
Input Voltage	190~265VAC			
Input Frequency	47~63Hz			
Power Factor	>0.98			
Input Power	3400VA(MAX)			
		Output		
Output Voltage Range	0~150V	0~200V	0~600V	0~800V
Output Current Range	0~30A	0~24A	0~10A	0~7.5A
Output Power Range	0~3000W			
Voltage Load Regulation	15mV	15mV	30mV	200mV
Current Load Regulation	30mA	24mA	10mA	20mA
/oltage Display Resolution	1mV			
Current Display Resolution	0.1mA			
/oltage Programmable Resolution	3mV	4mV	12mV	24mV
Current Programmable Resolution	1mA			
Voltage Setting Accuracy <sup>[1]</sup>	0.1%+15mV	0.1%+15mV	0.05%+150mV	0.05%+200mV
Current Setting Accuracy	0.1%+30mA	0.1%+24mA	0.1%+10mA	0.1%+7.5mA
Voltage Measurement Accuracy <sup>(1)</sup>	0.1%+15mV	0.1%+15mV	0.05%+150mV	0.05%+200mV
Current Measurement Accuracy	0.1%+30mA	0.1%+24mA	0.1%+10mA	0.1%+7.5mA
Voltage Ripple <sup>[2]</sup>	80mVp-p 15mVrms	150mVp-p 30mVrms	350mVp-p 40mVrms	800mVp-p 200mVrms
Current Ripple 🔋	60mA (Full Range) 10mA (TYP Value)	50mA (Full Range) 20mA (TYP Value)	25mA (Full Range) 10mA (TYP Value)	25mA (Full Range) 10mA (TYP Value)
Line Regulation(Voltage)	0.02%+8mV	0.02%+8mV	0.01%+30mV	0.01%+40mV
Line Regulation(Current)	30mA	30mA	15mA	20mA
Voltage Temperature Coefficient <sup>(4)</sup>	100ppm/°C			
Current Temperature Coefficient [4]	150ppm/°C			
OVM Resolution	1mV	1mV	12mV	12mV
OVM Precision <sup>[1]</sup>	0.1%+15mV	0.1%+15mV	0.05%+150mV	0.05%+200mV
Operating Mode	Constant voltage (CV) / Consta			
Remote Compensation	5V MAX			
Master-slave Control	Yes			
Response (Voltage Increase)	≤25ms	≤30ms	≤60ms	≤60ms
Response (Voltage Drop)	≤500ms (no load) ≤25ms (full load)	≤500ms (no load) ≤20ms (full load)	≤800ms (no load) ≤75ms (full load)	≤800ms (no load) ≤60ms (full load)
Load Transient Recovery Time [5]	≤2.5ms	≤3ms	≤3ms	≤3ms
Command Response Time	50ms			
Series Capability 6	Up to 8 units	Up to 6 units	Up to 2 units	Not Recommended
Parallel Capability	Up to 10 units	op to o units	op to 2 units	norneoonmended
Current Sharing <sup>17</sup>	40V	50V	200V	250V
Efficiency (full load)	92%	91%	91%	91%
	,	Other	21.0	
Protection Function	OVP/OCP/OTP/OPP/SCP/FO			
Anti Reverse Irrigation Protection	Yes			
nput Fuse	40A, 125VAC/250VAC, fast-acting type	40A, 125VAC/250VAC, fast-acting type	30A, 125VAC/250VAC, fast-acting type	30A, 125VAC/250VAC, fast-acting type
Jnit Weight/Shipping Weight	13.2kg/16.8kg	13.2kg/16.8kg	14.7kg/18.7kg	14.7kg/18.7kg
Dimensions(WxHxD)	423.0x87.0x469.0 mm	423.0x87.0x469.0 mm	423.0x87.0x514.0 mm	423.0x87.0x514.0 mm
Communication Modes	1. RS232/RS485/USB/LAN;	2. RS232/RS485/USB/LAN/GPIB		
Operating Environment	Temperature 0~40°C, Relative	Humidity 10%~90%(no condensation	); Pollution degree 2, Installation cate	gory II, Indoor use.
Cooling Mode	Forced air-cooling			
Altitude	2000m			

[1] %output+offset, when output voltage less than 5V, offset voltage is 30mV.

 [2] Vp-p@20HHz, Vmcg01.25MHz.
 [3] Arms@1.25MHz, the TYP Value is measured at the rated output voltage with 100% resistive load, and the measured value at full range of output voltage with 100% resistive load. is less than the Full Range value. [4] 0~40°C.

[5] Time for output voltage to recover within 0.5% (0.75% @800V models) of its rated output for a load change from 10% to 90% of its rated output current. Voltage set point from 10% to 90% of rated output.

[6] The communication must insulated users from output when using remote control and the output voltage exceeds 800VDC.

[7] Current Share error le<(lav\*2.5% + 5% F.S) A, F.S is the full scale of the current. lav=lsum/n, where lav is average current, lsum is total current and n is number of parallel units. Note: Output voltage must be higher than 30% of maximum output voltage when Current Share function properly.

#### 4000W in 2U(1)

Model	SP32VDC4000W	SP40VDC4000W	SP75VDC4000W	SP120VDC4000W
		Input		
Input Voltage	190~265VAC			
nput Frequency	47~63Hz			
Power Factor	>0.98			
nput Power	4800VA(MAX)	4500VA(MAX)	4500VA(MAX)	4500VA(MAX)
		Output		
Output Voltage Range	0~32V	0~40V	0~75V	0~120V
Dutput Current Range	0~200A	0~120A	0~60A	0~40A
Output Power Range	0~4000W			
/oltage Load Regulation	30mV	15mV	15mV	15mV
Current Load Regulation	200mA	120mA	60mA	40mA
/oltage Display Resolution	0.1mV	0.1mV	0.1mV	1mV
Current Display Resolution	1mA	1mA	0.1mA	0.1mA
/oltage Programmable Resolution		1mV	2mV	3mV
Current Programmable Resolution		3mA	2mA	1mA
Voltage Setting Accuracy <sup>III</sup>	0.05%+15mV	0.05%+15mV	0.1%+15mV	0.1%+15mV
Current Setting Accuracy	0.1%+200mA	0.1%+120mA	0.1%+60mA	0.1%+40mA
/oltage Measurement Accuracy <sup>™</sup>	0.05%+15mV	0.05%+15mV	0.1%+15mV	0.1%+15mV
Current Measurement Accuracy	0.1%+200mA	0.1%+120mA	0.1%+60mA	0.1%+40mA
/oltage Ripple <sup>[2]</sup>	60mVp-p 10mVrms	40mVp-p 6mVrms	40mVp-p 8mVrms	80mVp-p 15mVrms
Current Ripple <sup>(a)</sup>	400mA (Full Range) 200mA (TYP Value)	150mA (Full Range) 20mA (TYP Value)	60mA (Full Range) 10mA (TYP Value)	60mA (Full Range) 10mA (TYP Value)
ine Regulation(Voltage)	0.01%+8mV	0.01%+8mV	0.01%+8mV	0.02%+8mV
ine Regulation(Current)	200mA	30mA	30mA	30mA
/oltage Temperature Coefficient <sup>(4)</sup>	100ppm/°C			
Current Temperature Coefficient [4]	150ppm/°C			
OVM Resolution	0.1mV	0.1mV	0.1mV	1mV
VM Precision [1]	0.05%+15mV	0.05%+15mV	0.05%+15mV	0.1%+15mV
Dperating Mode	Constant voltage (CV) / Constant co	urrent (CC)		
Remote Compensation	4V MAX	4V MAX	5V MAX	5V MAX
Aaster-slave Control	Yes			
Response (Voltage Increase)	≤20ms (no load) ≤20ms (full load)	≤10ms	≤15ms	≤20ms
Response (Voltage Drop)	≤500ms (no load) ≤20ms (full load)	≤350ms (no load) ≤10ms (full load)	≤450ms (no load) ≤20ms (full load)	≤350ms (no load) ≤21ms (full load)
oad Transient Recovery Time [5]	≤2ms			
Command Response Time	50ms			
Series Capability <sup>[6]</sup>	Up to 10 units			
Parallel Capability	Up to 10 units			
Current Sharing <sup>[7]</sup>	12V	12V	20V	30V
Efficiency (full load)	91%	91%	91%	92%
		Other		
Protection Function	OVP/OCP/OTP/OPP/SCP/FOLDB			
Anti Reverse rrigation Protection	No(customers can purchase other accessorie to achieve this function, please consult the		Yes	Yes
nput Fuse	salesrepresentative for details) 40A, 125VAC/250VAC, fast-acting type			
Jnit Weight/Shipping Weight	14.7kg/18.7kg	14.7kg/18.7kg	13.2kg/16.8kg	13.2kg/16.8kg
limensions(WxHxD)	423.0x87.0x514.0 mm	423.0x87.0x514.0 mm	423.0x87.0x469.0 mm	423.0x87.0x469.0 mm
	1. RS232/RS485/USB/LAN; 2. RS		+20.0A07.0A407.0 IIIII	+23.0x07.0x407.0 mm
Communication Modes			); Pollution degree 2, Installation cate	nory II Indoor use
Cooling Mode	Forced air-cooling	ang 1070 9070(10 condensation	, ronation degree 2, instanation cale	gory n, indoor doc.
Altitude	-			
	2000m			
nsulation	AC input <->DC output, 4242VDC,	•		

 [1] %output+offset, when output voltage less than 5V, offset voltage is 30mV.
 [2] Vp-p@20MHz, Vrms@1.25MHz.
 The 20V/32V/40V/75V models voltage ripple is 50mVp-p/6mVrms @ 1V. For the 600V and 800V models, the voltage ripple from 0~5V is out of the range show above.
 [3] Arms@1.25MHz, the TYP Value is measured at the rated output voltage with 100% resistive load, and the measured value at full range of output voltage with 100% resistive load. is less than the Full Range value. [4] 0~40°C.

[5] Time for output voltage to recover within 0.5% (0.75% @800V models) of its rated output for a load change from 10% to 90% of its rated output current. Voltage set point from 10% to 90% of rated output.

(a) The communication must insulated users from output when using remote control and the output voltage exceeds 800VDC.
 (7) Current Share error le<(lav\*2.5% + 5% F.S) A, F.S is the full scale of the current. lav=lsum/n, where lav is average current, lsum is total current and n is number of parallel units. Note: Output voltage must be higher than 30% of maximum output voltage when Current Share function properly.</li>

#### 4000W in 2U(2)

Model	SP150VDC4000W	SP200VDC4000W	SP600VDC4000W	SP800VDC4000W
		Input		
nput Voltage	190~265VAC			
nput Frequency	47~63Hz			
Power Factor	>0.98			
nput Power	4500VA(MAX)			
		Output		
Output Voltage Range	0~150V	0~200V	0~600V	0~800V
Output Current Range	0~30A	0~24A	0~10A	0~7.5A
Output Power Range	0~4000W			
/oltage Load Regulation	15mV	25mV	30mV	200mV
Current Load Regulation	30mA	24mA	10mA	20mA
oltage Display Resolution	1mV			
urrent Display Resolution	0.1mA			
oltage Programmable Resolution	3mV	4mV	12mV	24mV
urrent Programmable Resolution				
oltage Setting Accuracy <sup>[1]</sup>	0.1%+15mV	0.1%+15mV	0.05%+150mV	0.05%+200mV
Current Setting Accuracy	0.1%+30mA	0.1%+24mA	0.1%+10mA	0.1%+7.5mA
oltage Measurement Accuracy <sup>[1]</sup>	0.1%+15mV	0.1%+15mV	0.05%+150mV	0.05%+200mV
Current Measurement Accuracy	0.1%+30mA	0.1%+24mA	0.1%+10mA	0.1%+7.5mA
'oltage Ripple <sup>[2]</sup>	80mVp-p	150mVp-p	350mVp-p	800mVp-p
onage ripple	15mVrms	30mVrms	40mVrms	200mVrms
Current Ripple <sup>[3]</sup>	60mA (Full Range) 10mA (TYP Value)	50mA (Full Range) 20mA (TYP Value)	25mA (Full Range) 10mA (TYP Value)	25mA (Full Range) 10mA (TYP Value)
ine Regulation(Voltage)	0.02%+8mV	0.02%+8mV	0.01%+30mV	0.01%+40mV
ine Regulation(Current)	30mA	30mA	15mA	20mA
oltage Temperature Coefficient <sup>[4]</sup>	100ppm/°C			
urrent Temperature Coefficient (4)	150ppm/°C			
VM Resolution	1mV	1mV	12mV	12mV
VM Precision <sup>[1]</sup>	0.1%+15mV	0.1%+15mV	0.05%+150mV	0.05%+200mV
perating Mode	Constant voltage (CV) / Cons			
Remote Compensation	5V MAX			
laster-slave Control	Yes			
Response (Voltage Increase)	≤25ms	≤30ms	≤60ms	≤60ms
Response (Voltage Drop)	≤500ms (no load) ≤25ms (full load)	≤500ms (no load) ≤20ms (full load)	≤800ms (no load) ≤60ms (full load)	≤800ms (no load) ≤60ms (full load)
oad Transient Recovery Time <sup>[S]</sup>	≤2.5ms	≤3ms	≤3ms	≤3ms
command Response Time	50ms	20110	20110	20110
Series Capability <sup>6</sup>	Up to 8 units	Up to 6 units	Up to 2 units	Not Recommended
arallel Capability	Up to 10 units	op to o unito	op to 2 units	norneoonmendeu
current Sharing <sup>[7]</sup>	40V	501/	2001/	250V
fficiency (full load)		50V	200V	
	93%	92% Other	92%	92%
Protection Function	OVP/OCP/OTP/OPP/SCP/F			
anti Reverse rrigation Protection	Yes			
nput Fuse	40A, 125VAC/250VAC, fast-acting type			
nit Weight/Shipping Weight	13.2kg/16.8kg	13.2kg/16.8kg	14.7kg/18.7kg	14.7kg/18.7kg
imensions(WxHxD)	423.0x87.0x469.0 mm	423.0x87.0x469.0 mm	423.0x87.0x514.0 mm	423.0x87.0x514.0 mm
Communication Modes	1. RS232/RS485/USB/LAN;	2. RS232/RS485/USB/LAN/GPIB		
perating Environment	Temperature 0~40°C, Relativ	e Humidity 10%~90%(no condensation	n); Pollution degree 2, Installation cate	gory II, Indoor use.
Cooling Mode	Forced air-cooling			
Altitude	2000m			

 (2) Vp-p@20MHz, Vmms@1.25MHz.
 The 20V/32V/40V/75V models voltage ripple is 50mVp-p/6mVrms @ 1V. For the 600V and 800V models, the voltage ripple from 0~5V is out of the range show above.
 (3) Arms@1.25MHz, the TYP Value is measured at the rated output voltage with 100% resistive load, and the measured value at full range of output voltage with 100% resistive load. is less than the Full Range value. [4] 0~40°C.

[5] Time for output voltage to recover within 0.5% (0.75% @800V models) of its rated output for a load change from 10% to 90% of its rated output current. Voltage set point from 10% to 90% of rated output.

[6] The communication must insulated users from output when using remote control and the output voltage exceeds 800VDC.
 [7] Current Share error le<(lav\*2.5% + 5% F.S) A, F.S is the full scale of the current. lav=lsum/n, where lav is average current, lsum is total current and n is number of parallel units. Note: Output voltage must be higher than 30% of maximum output voltage when Current Share function properly.

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### **Selection List:**

Model	Voltage	Current	Power	Size	Corresponding page
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SPS32VDC24000W-2-19	32V	1200A	24kW	19U	P29
SPS32VDC40000W-2-27		2000A	40kW	27U	P29
SPS40VDC12000W-2-13		360A	12kW	13U	P30
SPS40VDC24000W-2-19	40V	720A	24kW	19U	P30
SPS40VDC40000W-2-27		1200A	40kW	27U	P30
SPS75VDC12000W-2-13		180A	12kW	13U	P31
SPS75VDC24000W-2-19	75V	360A	24kW	19U	P31
SPS75VDC40000W-2-27		600A	40kW	27U	P31
SPS80VDC9000W-2-13		180A	9kW	13U	P32
SPS80VDC18000W-2-19	80V	360A	18kW	19U	P32
SPS80VDC30000W-2-27		600A	30kW	27U	P32
SPS96VDC12000W-2-13	96V	200A	12kW	13U	P33
SPS120VDC12000W-2-13		120A	12kW	13U	P34
SPS120VDC24000W-2-19	120V	240A	24kW	19U	P34
SPS120VDC40000W-2-27		400A	40kW	27U	P34
SPS150VDC12000W-2-13		90A	12kW	13U	P35
SPS150VDC24000W-2-19	150V	180A	24kW	19U	P35
SPS150VDC40000W-2-27		300A	40kW	27U	P35
SPS192VDC24000W-2-29	192V	200A	24kW	19U	P36
SPS200VDC12000W-2-13		72A	12kW	13U	P37
SPS200VDC24000W-2-19	200V	144A	24kW	19U	P37
SPS200VDC40000W-2-27		240A	40kW	27U	P37
SPS225VDC12000W-2-13	225V	60A	12kW	13U	P38
SPS240VDC9000W-2-13		60A	9kW	13U	P39
SPS240VDC24000W-2-19	240V	120A	24kW	19U	P39
SPS320VDC40000W-2-27	320V	200A	40kW	27U	P40
SPS360VDC12000W-2-13	360V	40A	12kW	13U	P41
SPS400VDC40000W-2-27	400V	120A	40kW	27U	P42
SPS450VDC12000W-2-13		30A	12kW	13U	P43
SPS450VDC24000W-2-19	450V	60A	24kW	19U	P43
SPS480VDC18000W-2-19	480V	60A	18kW	19U	P44
SPS600VDC12000W-2-13		30A	12kW	13U	P45
SPS600VDC24000W-2-19	600V	60A	24kW	19U	P45
SPS600VDC40000W-2-27		100A	40kW	27U	P45
SPS720VDC24000W-2-19	720V	40A	24kW	19U	P46
SPS750VDC40000W-2-27	750V	60A	40kW	27U	P47
SPS800VDC12000W-2-13		22.5A	12kW	13U	P48
SPS800VDC24000W-2-19		45A	24kW	19U	P48
SPS800VDC30000W-2-27	800V	60A	30kW	27U	P48
SPS800VDC40000W-2-27		75A	40kW	27U	P48
SPS900VDC24000W-2-19	900V	30A	24kW	19U	P49
SPS1200VDC24000W-2-19		24A	24kW	19U	P50
SPS1200VDC40000W-2-27	1200V	40A	40kW	27U	P50

\*This formula is the standard cabinet for SP-2U model; it is available to select cabinet with different specification according to exact situation.

MODEL		SPS32VDC12000W-2-13	SPS32VDC24000W-2-19	SPS32VDC40000W-2-27	
MODEL		3F332VDC12000W-2-13		3F332VDC40000W-2-27	
(altono		190~265VAC	Input		
Voltage					
Frequency		47~63Hz			
Phase		3 Phase, 4Wire+Groud/Y Conne			
Max.Current		75A	150A	250A	
nput Power Max		15kW	28.5kW	47.5kW	
Power Factorat 220V	AC Input, Full Load	0.98 Min. Active PFC			
Efficiency		>88% Max @Full Load and Units			
			Output		
Output Voltage		0~32V	0.10001		
Output Current		0~600A	0~1200A	0~2000A	
Output Power		12kW Max	24kW Max	40kW Max	
oad Regulation	Voltage	90mV	180mV	300mV	
5	Current	0.6A	1.2A	2A	
ine Regulation	Voltage	0.02%F.S.+30mV			
	Current	0.02%F.S.+15mA			
	Range	0~32V			
/oltage Setting	Resolution	0.1mV			
and a country	Accuracy	0.1%+0.1%F.S. at 0< Ouput Volta	ge =<75Vdc		
		0.05%+0.05%F.S. at 75Vdc< Oup	ut Voltage =<1200Vdc		
	Range	0~600A	0~1200A	0~2000A	
Current Setting	Resolution	10mA	0.1A	0.1A	
	Accuracy	0.1%+0.10%F.S			
	Voltage	120mVp-p/20mVrms			
Ripple	Current	600mA(Full Range)	1200mA(Full Range)	2000mA(Full Range)	
	Current	300mA(TYP Value)	600mA(TYP Value)	1000mA(TYP Value)	
			Measurement		
	Range	0~32V			
	Resolution	0.1mV			
/oltage Setting	A	0.1%+0.1%F.S. at 0< Ouput Volta	ge =<75Vdc		
	Accuracy	0.05%+0.05%F.S. at 75Vdc< Oup	ut Voltage =<1200Vdc		
	Range	0~600A	0~1200A	0~2000A	
Current Setting	Resolution	10mA	0.1A	0.1A	
	Accuracy	0.1%+0.10%F.S			
			Extra Function		
emote Sense	Range	4V(DC), Max. Total power less t	han rated power		
		50ms			
	e	VFD			
Comm. Respondenc	е.	VFD			
Comm. Respondenc Graphic Display		VFD Soft key, Numberic key, Rotary K	(nob		
Comm. Respondenc Graphic Display Operation Key Featu	re		(nob		
Comm. Respondenc Graphic Display Operation Key Featu Rack mount Handles	re	Soft key, Numberic key, Rotary k	(nob		
Comm. Respondenc Graphic Display Operation Key Featu Rack mount Handles FAN	re	Soft key, Numberic key, Rotary k Yes Temperature Control	(nob		
Comm. Respondenc Graphic Display Operation Key Featu Rack mount Handles FAN Protection Circuits	re	Soft key, Numberic key, Rotary k Yes Temperature Control OCP, OVP, OPP, OTP, FAN			
Comm. Respondenc Graphic Display Operation Key Featu Rack mount Handles FAN Protection Circuits	re	Soft key, Numberic key, Rotary k Yes Temperature Control OCP, OVP, OPP, OTP, FAN USB, RS485, RS232, LAN(Standa	ard); GPIB(Option)		
Comm. Respondenc Graphic Display Operation Key Featu Rack mount Handles GN Protection Circuits Interface	re	Soft key, Numberic key, Rotary k Yes Temperature Control OCP, OVP, OPP, OTP, FAN USB, RS485, RS232, LAN(Standa Remote Control In			
Comm. Respondenc Graphic Display Operation Key Featu Rack mount Handles FAN Protection Circuits Interface Remote Input signal	re	Soft key, Numberic key, Rotary k Yes Temperature Control OCP, OVP, OPP, OTP, FAN USB, RS485, RS232, LAN(Standa Remote Control Ir Not Support	ard); GPIB(Option)		
Comm. Respondenc Graphic Display Operation Key Featu Rack mount Handles FAN Protection Circuits Interface Remote Input signal	re	Soft key, Numberic key, Rotary k Yes Temperature Control OCP, OVP, OPP, OTP, FAN USB, RS485, RS232, LAN(Standa Remote Control In	ard); GPIB(Option) nput/Output signal characteristics		
Comm. Respondenc Graphic Display Operation Key Featu Rack mount Handles FAN Protection Circuits Interface Remote Input signal Remote output signal	re	Soft key, Numberic key, Rotary k Yes Temperature Control OCP, OVP, OPP, OTP, FAN USB, RS485, RS232, LAN(Standa Remote Control Ir Not Support Not Support	ard); GPIB(Option)		
Comm. Respondenc Graphic Display Operation Key Featu Rack mount Handles FAN Protection Circuits Interface Remote Input signal Remote output signal Operating Temperatu	re Il	Soft key, Numberic key, Rotary k Yes Temperature Control OCP, OVP, OPP, OTP, FAN USB, RS485, RS232, LAN(Standa Remote Control Ir Not Support Not Support O°C~40°C	ard); GPIB(Option) nput/Output signal characteristics		
Comm. Respondenc Graphic Display Operation Key Featur tack mount Handles AN Protection Circuits Interface Remote Input signal Remote output signal Operating Temperatur Storage Temperatur	re Il	Soft key, Numberic key, Rotary k Yes Temperature Control OCP, OVP, OPP, OTP, FAN USB, RS485, RS232, LAN(Standa Remote Control Ir Not Support Not Support O°C~40°C -20°C~70°C	ard); GPIB(Option) nput/Output signal characteristics		
Comm. Respondenc Graphic Display Operation Key Featu Rack mount Handles AN Protection Circuits Interface Remote Input signal Remote output signal Operating Temperatu Storage Temperatur Nititude	re Il	Soft key, Numberic key, Rotary k Yes Temperature Control OCP, OVP, OPP, OTP, FAN USB, RS485, RS232, LAN(Standa Remote Control Ir Not Support Not Support O°C~40°C -20°C~70°C 2000m	ard); GPIB(Option) nput/Output signal characteristics		
Comm. Respondenc Graphic Display Operation Key Featur tack mount Handles AN Protection Circuits Interface Remote Input signal Remote output signal Operating Temperatur Storage Temperatur Stitude telative Humidity	re I I re e	Soft key, Numberic key, Rotary k Yes Temperature Control OCP, OVP, OPP, OTP, FAN USB, RS485, RS232, LAN(Standa Remote Control Ir Not Support Not Support O°C~40°C -20°C~70°C 2000m 10%-90%, non-condensing	ard); GPIB(Option) nput/Output signal characteristics Environmental		
Comm. Respondenc Graphic Display Operation Key Featur tack mount Handles AN Protection Circuits Interface Remote Input signal Remote output signal Operating Temperatur Storage Temperatur Stitude telative Humidity	re I I re e	Soft key, Numberic key, Rotary k Yes Temperature Control OCP, OVP, OPP, OTP, FAN USB, RS485, RS232, LAN(Standa Remote Control Ir Not Support Not Support O°C~40°C -20°C~70°C 2000m	ard); GPIB(Option) nput/Output signal characteristics Environmental /°C at Current		
Comm. Respondenc Graphic Display Operation Key Featur Rack mount Handles AN Protection Circuits Interface Remote Input signal Remote output signal Remote output signal Operating Temperatur Storage Temperatur Altitude Relative Humidity Femperature Coeffic	re int	Soft key, Numberic key, Rotary k Yes Temperature Control OCP, OVP, OPP, OTP, FAN USB, RS485, RS232, LAN(Standa Remote Control Ir Not Support Not Support 0°C~40°C -20°C~70°C 2000m 10%-90%, non-condensing 100ppm/°C at Voltage, 300ppm	ard); GPIB(Option) nput/Output signal characteristics Environmental /°C at Current Mechanical		
Comm. Respondenc Graphic Display Operation Key Featu Rack mount Handles FAN Protection Circuits Interface Remote Input signal Remote output signal Operating Temperatur Storage Temperatur Altitude Relative Humidity Temperature Coeffic Dimensions(W*H*D)	re int	Soft key, Numberic key, Rotary k Yes Temperature Control OCP, OVP, OPP, OTP, FAN USB, RS485, RS232, LAN(Standa Remote Control Ir Not Support Not Support O°C~40°C -20°C~70°C 2000m 10%-90%, non-condensing 100ppm/°C at Voltage, 300ppm	ard); GPIB(Option) nput/Output signal characteristics Environmental /*C at Current Mechanical 600.0*843.0*700.0 mm	600.0*1196.0*700.0 mm	
Comm. Respondenc Graphic Display Operation Key Featur Rack mount Handles FAN Protection Circuits Interface Remote Input signal Remote output signal Coperating Temperatur Storage Temperatur Storage Temperatur Altitude Relative Humidity Temperature Coeffic Dimensions(W*H*D) Package Dimensions	re int	Soft key, Numberic key, Rotary k Yes Temperature Control OCP, OVP, OPP, OTP, FAN USB, RS485, RS232, LAN(Standa Remote Control Ir Not Support O°C~40°C -20°C~70°C 2000m 10%-90%, non-condensing 100ppm/°C at Voltage, 300ppm 600.0*576.0*700.0 mm 720.0*890.0*820.0 mm	ard); GPIB(Option) nput/Output signal characteristics  Environmental  /*C at Current Mechanical 600.0*843.0*700.0 mm 720.0*1160.0*820.0 mm	720.0*1535.0*820.0 mm	
Comm. Respondenc Graphic Display Operation Key Featur Rack mount Handles FAN Protection Circuits Interface Remote Input signal Remote output signal Remote output signal Operating Temperatur Storage Temperatur Altitude Relative Humidity Temperature Coeffic Dimensions(W*H*D) Package Dimensions Jnit Weight	re int	Soft key, Numberic key, Rotary k Yes Temperature Control OCP, OVP, OPP, OTP, FAN USB, RS485, RS232, LAN(Standa Remote Control Ir Not Support O°C~40°C -20°C~70°C 2000m 10%-90%, non-condensing 100ppm/°C at Voltage, 300ppm 600.0*576.0*700.0 mm 720.0*890.0*820.0 mm 54kg+15kg*3 (REF)	ard); GPIB(Option) nput/Output signal characteristics Environmental /*C at Current Mechanical 600.0*843.0*700.0 mm 720.0*1160.0*820.0 mm 100.0kg+15kg*6 (REF)	720.0*1535.0*820.0 mm 120.0kg+15kg*10 (REF)	
Comm. Respondenc Graphic Display Operation Key Featur Rack mount Handles AN Protection Circuits Interface Remote Input signal Remote output signal Remote output signal Operating Temperatur Storage Temperatur Altitude Relative Humidity Temperature Coeffic Dimensions(W*H*D) Package Dimensions	re int	Soft key, Numberic key, Rotary k Yes Temperature Control OCP, OVP, OPP, OTP, FAN USB, RS485, RS232, LAN(Standa Remote Control Ir Not Support O°C~40°C -20°C~70°C 2000m 10%-90%, non-condensing 100ppm/°C at Voltage, 300ppm 600.0*576.0*700.0 mm 720.0*890.0*820.0 mm 54kg+15kg*3 (REF) 94kg+15kg*3 (REF)	ard); GPIB(Option) nput/Output signal characteristics  Environmental  /*C at Current Mechanical 600.0*843.0*700.0 mm 720.0*1160.0*820.0 mm	720.0*1535.0*820.0 mm	

\*F.S. represents the maximum value of the output range. \*N stands for the number of installed power supply units, and N is greater than 1.

# SPS Series DC Power Supply System

MODEL		SPS40VDC12000W-2-13	SPS40VDC24000W-2-19	SPS40VDC40000W-2-27		
			Input			
Voltage		190~265VAC				
Frequency		47~63Hz				
Phase		3 Phase, 4Wire+Groud/Y Connect				
Max.Current		75A	150A	250A		
Input Power Max		15kW	28.5kW	47.5kW		
Power Factorat 220V	AC Input, Full Load	0.98 Min. Active PFC				
Efficiency		>88% Max @Full Load and Units=4	kW Model			
			Output			
Output Voltage		0~40V				
Output Current		0~360A	0~720A	0~1200A		
Output Power		12kW Max	24kW Max	40kW Max		
Load Regulation	Voltage	120mV	240mV	400mV		
Loau Regulation	Current	0.36A	0.75A	1.2A		
Line Regulation	Voltage	0.02%F.S.+30mV				
	Current	0.02%F.S.+15mA				
	Range	0~40V				
Voltage Setting	Resolution	0.1mV				
ronage oetting	Accuracy	0.1%+0.1%F.S. at 0< Ouput Voltage	=<75Vdc			
	Accuracy	0.05%+0.05%F.S. at 75Vdc< Ouput V	/oltage =<1200Vdc			
	Range	0~360A	0~720A	0~1200A		
Current Setting	Resolution	10mA	10mA	0.1A		
	Accuracy	0.1%+0.10%F.S				
	Voltage	80mVp-p/12mVrms				
Ripple	Current	225mA(Full Range)	450mA(Full Range)	750mA(Full Range)		
	Guneni	30mA(TYP Value)	60mA(TYP Value)	100mA(TYP Value)		
			Measurement			
	Range	0~40V				
	Resolution	0.1mV				
Voltage Setting	A	0.1%+0.1%F.S. at 0< Ouput Voltage =<75Vdc				
	Accuracy	0.05%+0.05%F.S. at 75Vdc< Ouput V	/oltage =<1200Vdc			
	Range	0~360A	0~720A	0~1200A		
Current Setting	Resolution	10mA	10mA	0.1A		
	Accuracy	0.1%+0.10%F.S				
			Extra Function			
Remote Sense	Range	5V(DC), Max. Total power less than	rated power			
Comm. Respondence	е.	50ms				
Graphic Display		VFD				
Operation Key Featur	e	Soft key, Numberic key, Rotary Knob				
Rack mount Handles		Yes				
FAN		Temperature Control				
Protection Circuits		OCP, OVP, OPP, OTP, FAN				
Interface		USB, RS485, RS232, LAN(Standard)	); GPIB(Option)			
		Remote Control Inpu	t/Output signal characteristics			
Remote Input signal		Not Support				
Remote output signa	l	Not Support				
			Environmental			
	ire	0°C~40°C				
Operating Temperatu	e	-20°C~70°C				
		2000m				
Storage Temperatur						
Storage Temperatur Altitude		10%-90%, non-condensing				
Storage Temperatur Altitude Relative Humidity	ient		at Current			
Storage Temperatur Altitude Relative Humidity	ient	10%-90%, non-condensing	at Current Mechanical			
Storage Temperatur Altitude Relative Humidity Temperature Coeffic		10%-90%, non-condensing		600.0*1196.0*700.0 mm		
Operating Temperatu Storage Temperatur Altitude Relative Humidity Temperature Coeffic Dimensions(W*H*D) Package Dimensions		10%-90%, non-condensing 100ppm/°C at Voltage, 300ppm/°C	Mechanical	600.0*1196.0*700.0 mm 720.0*1535.0*820.0 mm		
Storage Temperatur Altitude Relative Humidity Temperature Coeffic Dimensions(W*H*D)		10%-90%, non-condensing 100ppm/°C at Voltage, 300ppm/°C 600.0*576.0*700.0 mm	Mechanical 600.0*843.0*700.0 mm			
Storage Temperatur Altitude Relative Humidity Temperature Coeffic Dimensions(W*H*D) Package Dimensions		10%-90%, non-condensing 100ppm/°C at Voltage, 300ppm/°C 600.0*576.0*700.0 mm 720.0*890.0*820.0 mm	Mechanical 600.0*843.0*700.0 mm 720.0*1160.0*820.0 mm	720.0*1535.0*820.0 mm		

\*F.S. represents the maximum value of the output range.

\*N stands for the number of installed power supply units, and N is greater than 1.

MODEL		SPS75VDC12000W-2-13	SPS75VDC24000W-2-19	SPS75VDC40000W-2-27	
			Input		
Voltage		190~265VAC			
Frequency		47~63Hz			
Phase		3 Phase, 4Wire+Groud/Y Connect			
Max.Current		75A	150A	250A	
Input Power Max		15kW	28.5kW	47.5kW	
Power Factorat 220V	AC Input, Full Load	0.98 Min. Active PFC			
Efficiency		>88% Max @Full Load and Units=4k	W Model		
			Output		
Output Voltage		0~75V			
Output Current		0~180A	0~360A	0~600A	
Output Power		12kW Max	24kW Max	40kW Max	
	Voltage	120mV	240mV	400mV	
Load Regulation	Current	0.18A	0.36A	0.6A	
	Voltage	0.02%F.S.+30mV			
ine Regulation	Current	0.02%F.S.+15mA			
	Range	0~75V			
	Resolution	0.1mV			
Voltage Setting		0.1%+0.1%F.S. at 0< Ouput Voltage =	=<75Vdc		
	Accuracy	0.05%+0.05%F.S. at 75Vdc< Ouput V			
	Range	0~180A	0~360A	0~600A	
Current Setting	Resolution	10mA	1		
-	Accuracy	0.1%+0.10%F.S			
	Voltage	80mVp-p/16mVrms			
Ripple		90mA(Full Range)	180mA(Full Range)	300mA(Full Range)	
	Current	15mA(TYP Value)	30mA(TYP Value)	50mA(TYP Value)	
		, <i>,</i>	Measurement		
	Range	0~75V			
	Resolution	0.1mV			
Voltage Setting		0.1%+0.1%F.S. at 0< Ouput Voltage =<75Vdc			
	Accuracy	0.05%+0.05%F.S. at 75Vdc< Ouput Voltage =<1200Vdc			
	Range	0~180A	0~360A	0~600A	
Current Setting	Resolution	10mA			
0	Accuracy	0.1%+0.10%F.S			
			Extra Function		
Remote Sense	Range	5V(DC), Max. Total power less than	rated power		
Comm. Respondenc	e.	50ms			
Graphic Display		VFD			
Operation Key Featur	re	Soft key, Numberic key, Rotary Knob			
Rack mount Handles		Yes			
FAN		Temperature Control			
Protection Circuits		OCP, OVP, OPP, OTP, FAN			
nterface		USB, RS485, RS232, LAN(Standard)	; GPIB(Option)		
			t/Output signal characteristics		
		Not Support			
Remote Input signal	I	Not Support			
Remote Input signal	ll		Environmental		
Remote Input signal Remote output signa			Environmental		
Remote Input signal Remote output signa Operating Temperatu	ıre		Environmental		
Remote Input signal Remote output signa Operating Temperatu Storage Temperatur	ıre	0°C~40°C	Environmental		
Remote Input signal Remote output signa Operating Temperatu Storage Temperatur Altitude	ıre	0°C~40°C -20°C~70°C 2000m	Environmental		
Remote Input signal Remote output signa Operating Temperatu Storage Temperatur Altitude Relative Humidity	Jre e	0°C~40°C -20°C~70°C 2000m 10%-90%, non-condensing			
Remote Input signal Remote output signa Operating Temperatu Storage Temperatur Altitude Relative Humidity	Jre e	0°C~40°C -20°C~70°C 2000m			
Remote Input signal Remote output signa Operating Temperatu Storage Temperatur Altitude Relative Humidity Temperature Coeffic	ire e	0°C~40°C -20°C~70°C 2000m 10%-90%, non-condensing 100ppm/°C at Voltage, 300ppm/°C	at Current Mechanical	600.0*1196.0*700.0 mm	
Remote Input signal Remote output signa Operating Temperatu Storage Temperatur Altitude Relative Humidity Temperature Coeffic Dimensions(W*H*D)	ıre e ient	0°C~40°C -20°C~70°C 2000m 10%-90%, non-condensing 100ppm/°C at Voltage, 300ppm/°C 600.0*576.0*700.0 mm	at Current Mechanical 600.0*843.0*700.0 mm	600.0*1196.0*700.0 mm 720.0*1535.0*820.0 mm	
Remote Input signal Remote output signa Operating Temperatu Storage Temperatur Altitude Relative Humidity Temperature Coeffic Dimensions(W*H*D) Package Dimensions	ıre e ient	0°C~40°C -20°C~70°C 2000m 10%-90%, non-condensing 100ppm/°C at Voltage, 300ppm/°C 600.0*576.0*700.0 mm 720.0*890.0*820.0 mm	at Current Mechanical 600.0*843.0*700.0 mm 720.0*1160.0*820.0 mm	720.0*1535.0*820.0 mm	
Remote Input signal Remote output signa Operating Temperatu Storage Temperatur Altitude Relative Humidity Temperature Coeffic Dimensions(W*H*D)	ıre e ient	0°C~40°C -20°C~70°C 2000m 10%-90%, non-condensing 100ppm/°C at Voltage, 300ppm/°C 600.0*576.0*700.0 mm	at Current Mechanical 600.0*843.0*700.0 mm		

\*F.S. represents the maximum value of the output range . \*N stands for the number of installed power supply units, and N is greater than 1 .

# SPS Series DC Power Supply System

MODEL		SPS80VDC9000W-2-13	SPS80VDC18000W-2-19	SPS80VDC30000W-2-27	
			Input		
Voltage		190~265VAC			
Frequency		47~63Hz			
Phase		3 Phase, 4Wire+Groud/Y Connect			
Max.Current		55A	107A	178A	
Input Power Max		10.5kW	20.5kW	34kW	
Power Factorat 220V	AC Input, Full Load	0.98 Min. Active PFC			
Efficiency		>88% Max @Full Load and Units=3			
		0~80V	Output		
Output Voltage Output Current		0~180A	0~360A	0~600A	
Output Current Output Power		9kW Max	18kW Max	30kW Max	
output Fower	Voltage	120mV	240mV	400mV	
Load Regulation	Current	0.18A			
		0.02%F.S.+30mV	0.36A	0.6A	
Line Regulation	Voltage				
	Current	0.02%F.S.+15mA			
	Range Resolution	0~80V 0.1mV			
Voltage Setting	Resolution				
	Accuracy	0.1%+0.1%F.S. at 0< Ouput Voltage			
	Papac	0.05%+0.05%F.S. at 75Vdc< Ouput V		0.0004	
Current Setting	Range Resolution	0~180A	0~360A	0~600A	
Current Setting		10mA			
	Accuracy	0.1%+0.10%F.S			
	Voltage	120mVp-p/18mVrms	240mVp-p/36mVrms	400mVp-p/60mVrms	
Ripple	Current	75mA(Full Range)	150mA(Full Range)	250mA(Full Range)	
		15mA(TYP Value)	30mA(TYP Value)	50mA(TYP Value)	
	Range		Measurement		
		0~80V			
Voltage Setting	Resolution	0.1mV	-70/4-		
	Accuracy	0.1%+0.1%F.S. at 0< Ouput Voltage =<75Vdc 0.05%+0.05%F.S. at 75Vdc< Ouput Voltage =<1200Vdc			
	Danas	· ·	•	0 (00)	
	Range	0~180A	0~360A	0~600A	
Current Setting	Resolution	10mA			
	Accuracy	0.1%+0.10%F.S	Extra Function		
Domoto Sonoo	Range	5V(DC), Max. Total power less than			
Remote Sense Range		50ms	•		
		VFD			
Comm. Respondenc					
Comm. Respondenc Graphic Display	re		b		
Comm. Respondenc Graphic Display Operation Key Featu		Soft key, Numberic key, Rotary Knol	b		
Comm. Respondenc Graphic Display Operation Key Featu Rack mount Handles		Soft key, Numberic key, Rotary Knol Yes	b		
Comm. Respondenc Graphic Display Operation Key Featu Rack mount Handles FAN		Soft key, Numberic key, Rotary Knol Yes Temperature Control	b		
Comm. Respondenc Graphic Display Operation Key Featu Rack mount Handles FAN Protection Circuits		Soft key, Numberic key, Rotary Knol Yes Temperature Control OCP, OVP, OPP, OTP, FAN			
Comm. Respondenc Graphic Display Operation Key Featu Rack mount Handles FAN Protection Circuits		Soft key, Numberic key, Rotary Knol Yes Temperature Control OCP, OVP, OVP, OTP, FAN USB, RS485, RS232, LAN(Standard)	); GPIB(Option)		
Comm. Respondenc Graphic Display Operation Key Featu Rack mount Handles FAN Protection Circuits Interface		Soft key, Numberic key, Rotary Knol Yes Temperature Control OCP, OVP, OPP, OTP, FAN USB, RS485, RS232, LAN(Standard) Remote Control Input			
Comm. Respondenc Graphic Display Operation Key Featu Rack mount Handles FAN Protection Circuits Interface Remote Input signal		Soft key, Numberic key, Rotary Knol Yes Temperature Control OCP, OVP, OPP, OTP, FAN USB, RS485, RS232, LAN(Standard) Remote Control Inpu Not Support	); GPIB(Option)		
Comm. Respondenc Graphic Display Operation Key Featu Rack mount Handles FAN Protection Circuits Interface Remote Input signal		Soft key, Numberic key, Rotary Knol Yes Temperature Control OCP, OVP, OPP, OTP, FAN USB, RS485, RS232, LAN(Standard) Remote Control Input	); GPIB(Option)		
Comm. Respondenc Graphic Display Operation Key Featu Rack mount Handles FAN Protection Circuits Interface Remote Input signal Remote output signal	1	Soft key, Numberic key, Rotary Knol Yes Temperature Control OCP, OVP, OPP, OTP, FAN USB, RS485, RS232, LAN(Standard) Remote Control Inpu Not Support	); GPIB(Option) t/Output signal characteristics		
Comm. Respondenc Graphic Display Operation Key Featu Rack mount Handles FAN Protection Circuits Interface Remote Input signal Remote output signal Operating Temperatu	I I I I I I I I I I I I I I I I I I I	Soft key, Numberic key, Rotary Knol Yes Temperature Control OCP, OVP, OPP, OTP, FAN USB, RS485, RS232, LAN(Standard) Remote Control Inpu Not Support Not Support	); GPIB(Option) t/Output signal characteristics		
Comm. Respondenc Graphic Display Operation Key Featu Rack mount Handles FAN Protection Circuits Interface Remote Input signal Remote output signal Operating Temperatu Storage Temperatu	I I I I I I I I I I I I I I I I I I I	Soft key, Numberic key, Rotary Knol Yes Temperature Control OCP, OVP, OPP, OTP, FAN USB, RS485, RS232, LAN(Standard) Remote Control Inpu Not Support Not Support O°C~40°C -20°C~70°C	); GPIB(Option) t/Output signal characteristics		
Comm. Respondenc Graphic Display Operation Key Featu Rack mount Handles FAN Protection Circuits Interface Remote Input signal Remote output signal Operating Temperatu Storage Temperatur Altitude	I I I I I I I I I I I I I I I I I I I	Soft key, Numberic key, Rotary Knol Yes Temperature Control OCP, OVP, OPP, OTP, FAN USB, RS485, RS232, LAN(Standard) Remote Control Inpu Not Support Not Support O°C~40°C	); GPIB(Option) t/Output signal characteristics		
Comm. Respondenc Graphic Display Operation Key Featu Rack mount Handles FAN Protection Circuits Interface Remote Input signal Remote output signal Operating Temperatu Storage Temperatur Altitude Relative Humidity	I I Re e	Soft key, Numberic key, Rotary Knol Yes Temperature Control OCP, OVP, OPP, OTP, FAN USB, RS485, RS232, LAN(Standard) Remote Control Inpu Not Support Not Support O°C~40°C -20°C~70°C 2000m 10%-90%, non-condensing	); GPIB(Option) tt/Output signal characteristics Environmental		
Comm. Respondenc Graphic Display Operation Key Featu Rack mount Handles FAN Protection Circuits Interface Remote Input signal Remote output signal Operating Temperatu Storage Temperatur Altitude Relative Humidity	I I Re e	Soft key, Numberic key, Rotary Knol Yes Temperature Control OCP, OVP, OPP, OTP, FAN USB, RS485, RS232, LAN(Standard) Remote Control Inpu Not Support Not Support O°C~40°C -20°C~70°C 2000m	); GPIB(Option) tt/Output signal characteristics Environmental		
Comm. Respondenc Graphic Display Operation Key Featu Rack mount Handles FAN Protection Circuits Interface Remote Input signal Remote output signal Operating Temperatu Storage Temperatur Altitude Relative Humidity Temperature Coeffic	I I I I I I I I I I I I I I I I I I I	Soft key, Numberic key, Rotary Knol Yes Temperature Control OCP, OVP, OPP, OTP, FAN USB, RS485, RS232, LAN(Standard) Remote Control Inpu Not Support Not Support O°C~40°C -20°C~70°C 2000m 10%-90%, non-condensing	); GPIB(Option) tt/Output signal characteristics Environmental	600.0*1196.0*700.0 mm	
Comm. Respondenc Graphic Display Operation Key Featu Rack mount Handles FAN Protection Circuits Interface Remote Input signal Remote output signal Operating Temperatu Storage Temperatur Altitude Relative Humidity Temperature Coeffic Dimensions(W*H*D)	I I I I I I I I I I I I I I I I I I I	Soft key, Numberic key, Rotary Knol Yes Temperature Control OCP, OVP, OPP, OTP, FAN USB, RS485, RS232, LAN(Standard) Remote Control Inpu Not Support O°C~40°C -20°C~70°C 2000m 10%-90%, non-condensing 100ppm/°C at Voltage, 300ppm/°C	); GPIB(Option) tt/Output signal characteristics Environmental at Current Metanical		
Comm. Respondenc Graphic Display Operation Key Featu Rack mount Handles FAN Protection Circuits	I I I I I I I I I I I I I I I I I I I	Soft key, Numberic key, Rotary Knol Yes Temperature Control OCP, OVP, OPP, OTP, FAN USB, RS485, RS232, LAN(Standard) Remote Control Input Not Support Not Support O°C~40°C -20°C~70°C 2000m 10%-90%, non-condensing 100ppm/°C at Voltage, 300ppm/°C 600.0*576.0*700.0 mm 720.0*890.0*820.0 mm	); GPIB(Option) tt/Output signal characteristics Environmental at Current Mechanical 600.0*843.0*700.0 mm 720.0*1160.0*820.0 mm	720.0*1535.0*820.0 mm	
Comm. Respondenc Graphic Display Operation Key Featu Rack mount Handles FAN Protection Circuits Interface Remote Input signal Remote output signal Operating Temperatu Storage Temperatur Altitude Relative Humidity Temperature Coeffic Dimensions(W*H*D) Package Dimensions	I I I I I I I I I I I I I I I I I I I	Soft key, Numberic key, Rotary Knol Yes Temperature Control OCP, OVP, OPP, OTP, FAN USB, RS485, RS232, LAN(Standard) Remote Control Input Not Support Not Support O°C~40°C -20°C~70°C 2000m 10%-90%, non-condensing 100ppm/°C at Voltage, 300ppm/°C	); GPIB(Option) tt/Output signal characteristics Environmental at Current Mechanical 600.0*843.0*700.0 mm		

\*F.S. represents the maximum value of the output range. \*N stands for the number of installed power supply units, and N is greater than 1.

	;	
MODEL		SPS96VDC12000W-2-13
		Input
Voltage		190~265VAC
Frequency		47~63Hz
Phase		3 Phase, 4Wire+Groud/Y Connect
Max.Current		75A
Input Power Max		15kW
Power Factorat 220VAC Input, Full Load		0.98 Min. Active PFC
Efficiency		>88% Max @Full Load and Units=4kW Model
		Output
Output Voltage		0~96V
Output Current		0~200A
Output Power		12kW Max
Load Regulation	Voltage	90mV
	Current	0.6A
Line Regulation	Voltage	0.02%F.S.+30mV
	Current	0.02%F.S.+15mA
	Range	0~96V
Voltage Setting	Resolution	1mV
	Accuracy	0.1%+0.1%F.S. at 0< Ouput Voltage =<75Vdc
	Range	0.05%+0.05%F.S. at 75Vdc< Ouput Voltage =<1200Vdc 0~200A
Current Setting	Resolution	1mA
ourient octaing	Accuracy	0.1%+0.10%F.S
	Voltage	90mVp-p/15mVrms
Ripple	-	800mA(Full Range)
	Current	400mA(TYP Value)
		Measurement
	Range	0~96V
	Resolution	1mV
Voltage Setting	Acourcov	0.1%+0.1%F.S. at 0< Ouput Voltage =<75Vdc
	Accuracy	0.05%+0.05%F.S. at 75Vdc< Ouput Voltage =<1200Vdc
	Range	0~200A
Current Setting	Resolution	1mA
	Accuracy	0.1%+0.10%F.S
		Extra Function
Remote Sense	Range	4V(DC), Max. Total power less than rated power
Comm. Respondence	2.	50ms
Graphic Display		VFD
Operation Key Featur		Soft key, Numberic key, Rotary Knob
Rack mount Handles		Yes
FAN		Temperature Control
Protection Circuits Interface		OCP, OVP, OPP, OTP, FAN USB, RS485, RS232, LAN(Standard); GPIB(Option)
Interface		USB, KS485, KS232, LAN(Standard); GPIB(Option) Remote Control Input/Output signal characteristics
Remote Input signal		Not Support
Remote output signal	I	Not Support
Remote output signa	1	Environmental
Operating Temperatu	re	0°C~40°C
Storage Temperature		-20°C~70°C
Altitude	5	2000m
Relative Humidity		10%-90%, non-condensing
Temperature Coeffici	ent	100ppm/°C at Voltage, 300ppm/°C at Current
		Mechanical
Dimensions(W*H*D)		600.0*576.0*700.0 mm
Package Dimensions	(W*H*D)	720.0*890.0*820.0 mm
Unit Weight		54kg+15kg*3 (REF)
Shipping Weight		94kg+15kg*3 (REF)
		Regulatory Compliance
CE Mark		Installation Overvoltage Category II; Class II equipment; indoor use only.

\*F.S. represents the maximum value of the output range.
 \*N stands for the number of installed power supply units, and N is greater than 1.

# SPS Series DC Power Supply System

MODEL		SPS120VDC12000W-2-13	SPS120VDC24000W-2-19	SPS120VDC40000W-2-27	
			Input		
Voltage		190~265VAC			
Frequency		47~63Hz			
Phase		3 Phase, 4Wire+Groud/Y Connect			
Max.Current		75A	150A	250A	
Input Power Max		15kW	28.5kW	47.5kW	
Power Factorat 220V	AC Input, Full Load	0.98 Min. Active PFC			
Efficiency		>88% Max @Full Load and Units=4k	W Model		
			Output		
Output Voltage		0~120V			
Output Current		0~120A	0~240A	0~400A	
Output Power		12kW Max	24kW Max	40kW Max	
Load Regulation	Voltage	120mV	240mV	400mV	
Loud Regulation	Current	0.12A	0.24A	0.4A	
ine Regulation	Voltage	0.02%F.S.+30mV			
.ine rregulation	Current	0.02%F.S.+15mA			
	Range	0~120V			
Voltage Setting	Resolution	1mV			
. enage octaing	Accuracy	0.1%+0.1%F.S. at 0< Ouput Voltage =	<75Vdc		
	ricourdey	0.05%+0.05%F.S. at 75Vdc< Ouput Vo	oltage =<1200Vdc		
	Range	0~120A	0~240A	0~400A	
Current Setting	Resolution	10mA			
	Accuracy	0.1%+0.10%F.S			
	Voltage	160mVp-p/30mVrms			
Ripple	0	90mA(Full Range)	180mA(Full Range)	300mA(Full Range)	
	Current	15mA(TYP Value)	30mA(TYP Value)	50mA(TYP Value)	
		. ,	leasurement		
	Range	0~120V			
	Resolution	0.1mV	1mV	1mV	
Voltage Setting		0.1%+0.1%F.S. at 0< Ouput Voltage =	<75Vdc		
	Accuracy	0.05%+0.05%F.S. at 75Vdc< Ouput Voltage =<1200Vdc			
	Range	0~120A	0~240A	0~400A	
Current Setting	Resolution	10mA			
	Accuracy	0.1%+0.10%F.S			
			Extra Function		
Remote Sense	Range	5V(DC), Max. Total power less than	rated power		
Comm. Respondence	e.	50ms			
Graphic Display		VFD			
Operation Key Featur	re	Soft key, Numberic key, Rotary Knob			
Rack mount Handles		Yes			
FAN		Temperature Control			
Protection Circuits		OCP, OVP, OPP, OTP, FAN			
Interface		USB, RS485, RS232, LAN(Standard);	GPIB(Option)		
			:/Output signal characteristics		
Remote Input signal		Not Support			
Remote output signal		Not Support			
ternote output signa			Environmental		
	Ire	0°C~40°C			
Operating Temperature		-20°C~70°C			
	-	2000m			
Storage Temperatur					
Storage Temperatur Altitude		10%-90%, non-condensing			
Storage Temperatur Altitude Relative Humidity	iont				
Storage Temperatur Altitude Relative Humidity	ient	100ppm/°C at Voltage, 300ppm/°C a			
Storage Temperatur Altitude Relative Humidity Temperature Coeffic	ient	100ppm/°C at Voltage, 300ppm/°C a	Mechanical	600 0+1106 0+700 0 ·····	
Storage Temperatur Altitude Relative Humidity Temperature Coeffic Dimensions(W*H*D)		100ppm/°C at Voltage, 300ppm/°C a	Mechanical 600.0*843.0*700.0 mm	600.0*1196.0*700.0 mm	
Storage Temperatur Altitude Relative Humidity Temperature Coeffic Dimensions(W*H*D) Package Dimensions		100ppm/°C at Voltage, 300ppm/°C a 600.0*576.0*700.0 mm 720.0*890.0*820.0 mm	Mechanical 600.0*843.0*700.0 mm 720.0*1160.0*820.0 mm	720.0*1535.0*820.0 mm	
Storage Temperatur Altitude Relative Humidity Temperature Coeffic Dimensions(W*H*D)		100ppm/°C at Voltage, 300ppm/°C a	Mechanical 600.0*843.0*700.0 mm		

\*F.S. represents the maximum value of the output range.
 \*N stands for the number of installed power supply units, and N is greater than 1.

MODEL		SPS150VDC12000W-2-13	SPS150VDC24000W-2-19	SPS150VDC40000W-2-27		
			Input			
Voltage		190~265VAC				
Frequency		47~63Hz				
Phase		3 Phase, 4Wire+Groud/Y Connect				
Max.Current		75A	150A	250A		
Input Power Max		15kW	28.5kW	47.5kW		
Power Factorat 220V	AC Input, Full Load	0.98 Min. Active PFC				
Efficiency		>88% Max @Full Load and Units=4I	kW Model			
-			Output			
Output Voltage		0~150V				
Output Current		0~90A	0~180A	0~300A		
Output Power		12kW Max	24kW Max	40kW Max		
	Voltage	120mV	240mV	400mV		
Load Regulation	Current	0.09A	0.18A	0.3A		
ine Deculati	Voltage	0.02%F.S.+30mV				
ine Regulation	Current	0.02%F.S.+15mA				
	Range	0~150V				
Inite an Oction	Resolution	1mV				
Voltage Setting	Accuracy	0.1%+0.1%F.S. at 0< Ouput Voltage	=<75Vdc			
	Accuracy	0.05%+0.05%F.S. at 75Vdc< Ouput V				
	Range	0~90A	0~180A	0~300A		
Current Setting	Resolution	1mA	10mA	10mA		
-	Accuracy	0.1%+0.10%F.S	I			
	Voltage	160mVp-p/30mVrms				
Ripple		90mA(Full Range)	180mA(Full Range)	300mA(Full Range)		
	Current	15mA(TYP Value)	30mA(TYP Value)	50mA(TYP Value)		
			Measurement			
	Range	0~150V				
	Resolution	1mV				
Voltage Setting		0.1%+0.1%F.S. at 0< Ouput Voltage =<75Vdc				
	Accuracy	0.05%+0.05%F.S. at 75Vdc< Ouput Voltage =<1200Vdc				
	Range	0~90A	0~180A	0~300A		
Current Setting	Resolution	1mA	10mA	10mA		
	Accuracy	0.1%+0.10%F.S				
			Extra Function			
Remote Sense	Range	5V(DC), Max. Total power less than	n rated power			
Comm. Respondenc	e.	50ms				
Graphic Display		VFD				
Operation Key Featu	re	Soft key, Numberic key, Rotary Knob				
Rack mount Handles	3	Yes				
FAN		Temperature Control				
Protection Circuits		OCP, OVP, OPP, OTP, FAN				
Protection Circuits		USB, RS485, RS232, LAN(Standard)	); GPIB(Option)			
		Remote Control Inpu	it/Output signal characteristics			
		Not Support				
Interface		Not Support				
Interface Remote Input signal		Not Support				
Interface Remote Input signal			Environmental			
nterface Remote Input signal Remote output signa	al		Environmental			
nterface Remote Input signal Remote output signa Operating Temperat	ure	Not Support	Environmental			
nterface Remote Input signal Remote output signa Operating Temperatu Storage Temperatu	ure	Not Support 0°C~40°C	Environmental			
nterface Remote Input signal Remote output signa Operating Temperat Storage Temperatur Altitude	ure	Not Support 0°C~40°C -20°C~70°C	Environmental			
nterface Remote Input signal Remote output signa Operating Temperat Storage Temperatur Altitude Relative Humidity	al ure re	Not Support 0°C~40°C -20°C~70°C 2000m				
Interface Remote Input signal Remote output signa Operating Temperat Storage Temperatur Altitude Relative Humidity	al ure re	Not Support 0°C~40°C -20°C~70°C 2000m 10%-90%, non-condensing				
Interface Remote Input signal Remote output signa Operating Temperatu Storage Temperatur Altitude Relative Humidity Temperature Coeffic	al ure re tient	Not Support 0°C~40°C -20°C~70°C 2000m 10%-90%, non-condensing	at Current	600.0*1196.0*700.0 mm		
Protection Circuits Interface Remote Input signal Remote output signal Operating Temperatu Storage Temperatur Altitude Relative Humidity Temperature Coeffic Dimensions(W*H*D) Package Dimensions	al ure re tient	Not Support 0°C~40°C -20°C~70°C 2000m 10%-90%, non-condensing 100ppm/°C at Voltage, 300ppm/°C	at Current Mechanical	600.0*1196.0*700.0 mm 720.0*1535.0*820.0 mm		
Interface Remote Input signal Remote output signal Operating Temperatu Storage Temperatur Altitude Relative Humidity Temperature Coeffic Dimensions(W*H*D)	al ure re tient	Not Support 0°C~40°C -20°C~70°C 2000m 10%-90%, non-condensing 100ppm/°C at Voltage, 300ppm/°C 600.0*576.0*700.0 mm 720.0*890.0*820.0 mm	at Current Mechanical 600.0*843.0*700.0 mm 720.0*1160.0*820.0 mm	720.0*1535.0*820.0 mm		
Interface Remote Input signal Remote output signal Operating Temperatu Storage Temperatur Altitude Relative Humidity Temperature Coeffic Dimensions(W*H*D) Package Dimensions	al ure re tient	Not Support 0°C~40°C -20°C~70°C 2000m 10%-90%, non-condensing 100ppm/°C at Voltage, 300ppm/°C	at Current Mechanical 600.0*843.0*700.0 mm			

\*F.S. represents the maximum value of the output range.
\*N stands for the number of installed power supply units, and N is greater than 1.

# SPS Series DC Power Supply System

Model         Pige 3000000000000000000000000000000000000	SPS192VD	С	
<table-container>Vietage190-260%Figure90%-26%Figure90%-90%6%90%6%90%6%90%6%90%6%90%6%90%6%90%6%90%6%90%6%90%6%90%6%90%6%90%6%90%6%90%6%90%6%90%6%90%6%90%7%90%&lt;</table-container>			SPS192VDC24000W-2-19
<table-container>          Pineger         47-83/2           Pineger         19 Pineger (Were) Connect           Pinel Piner (Were)         19 Pineger (Were)           Pinel Piner (Were)         0.9 String (Were)           Pinel Piner (Were)         0.9 String (Were)           Output Piner (Were)         0.9 String (</table-container>		I	Input
Pine**9 Priority9 Priority1504NextOrnert1504NextOrnert1504Status28 Mix (Eral Load and Units-ReV ModelOutput Douts0-920 Mix (Eral Load and Units-ReV ModelOutput Douts0-920 Mix (Eral Load and Units-ReV ModelOutput Pouts0-920 Mix (Eral Load And Units-Rev ModelManage0-920 Mix (Eral Load And Units-Rev ModelOutput Pouts0-920 Mix (Eral Load And Units-Rev ModelManage910 Mix (Eral Load And Units-Rev ModelManage0-920 Mix (Eral Load And Units-Rev ModelManage910 Mix (Eral Load And Units-Rev ModelManage0-920 Mix (Eral Load And Units-Rev ModelManage114 Mix (Eral Load And Units-Rev Model<	Voltage		190~265VAC
Mixed Sector 2000-Fee Sector 2	Frequency		47~63Hz
inpi for with the second of	Phase		3 Phase, 4Wire+Groud/Y Connect
Pixet for 2000-UPU Full col0.98% Max (#FIDEfficiency0.98% Max (#FIDOutput form0-19270-20040-2024Output form0.24% MaxOutput form0.24% MaxColl and Paguiation0.02% S - 50mVColl and Paguiation0.02% S - 50mVOutput form0.02% S - 50mVColl and Social S - 50mV0.02% S - 50mVColl and Social S - 50mV0.02% S - 50mVPague0.02% S - 50mVPague0.05% 0.02% M 2000 Wolksg = -75006Pague0.05% 0.05% M 2000	Max.Current		150A
Efficiency     s8%.Max@Full Lead and Juits-44W Model       Output Votage     0.00pd       Output Power     0-200A	Input Power Max		28.5kW
Outgot Que year of the second of t	Power Factorat 220VA	AC Input, Full Load	0.98 Min. Active PFC
Origin Vorial0-1924Origin Vorial0-2024Origin Vorial120-4004Concell120-4004Origin Vorial0.2025-8540m/Voriage Setting0.2025-8540m/Origin Vorial0.2025-8540m/Voriage Setting0.2025-8540m/Resolution0.2025-8540m/Partial0.2025-8540m/Partial0.2025-8540m/Partial0.2025-8540m/Partial0.2025-8540m/Partial0.2025-8540m/Partial0.2025-8540m/Partial0.2026-000400400-0000Partial0.2026-00040000Partial0.2026-000400000Partial0.2026-000400000Partial0.2026-000400000Partial0.2026-000400000Partial0.2026-000400000Partial0.2004000000000Partial0.2004000000000000000000000000000000000	Efficiency		>88% Max @Full Load and Units=4kW Model
Outpue Current         9-200A           Outpue Direct         244W Max           Outpue Direct         244W Max           Outpue Direct         12A           Outpue Direct         02245 s 15mA           Outpue Direct         02245 s 15mA           Presention         01%0 Tork State Direct Visite = 75%6           Outpue Direct         05%0 50%5 s 47%6           Outpue Direct         05%0 50%5 s 47%6           Outpue Direct         05%0 50%5 s 47%6           Outpue Direct         01%0 10%5           Outp			Output
<table-container>Output Power24M MaxLand RegulationVoltageCurrent 60.274-5.4 showCurrent 60.274-5.4 showCurrent 60.274-5.4 showAmage 60.274-5.4 showManage 60.074-5.4 showManage 60.074-5.4 showManage 60.074-5.4 showManage 60.074-5.4 showManage 60.074-0.004</table-container>	Output Voltage		0~192V
Number100100Current0.2% 5.3 dom/Current0.2% 5.4 Som/Current0.0% 5.4 Som/Current0.0% 5.4 Som/Current0.0% 5.4 Som/Resolution0.0% 5.4 Som/Resolution0.0% 5.4 Som/Resolution0.0% 5.4 Som/Resolution0.0% 5.4 Som/Resolution0.1% 0.1% 5.5 at 75% 4.6Current SettingResolutionResolution1.1% 0.1% 5.5 at 75% 4.6Current Setting0.0% 0.0% 0.5% 5.3 at 75% 4.6Resolution1.1% 0.1% 5.6Current Setting8 Bom/ 0.0% 0.0% 0.0% 0.0%Resolution1.1% 0.1% 5.6Resolution1.1% 0.1% 5.6Resolution0.0% 0.0% 0.0% 0.0% 0.0%Current Setting8 Bom 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0%Voltage Setting0.1% 0.1% 0.5% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0	Output Current		0~200A
Land Regulation         Quint         1.2 A           Unive Regulation         Quint of         0.021-E 5.415m.A           Quint of         0.021-E 5.415m.A           Auge Settion 0         Quint of Current 0         0.021-E 5.415m.A           Accuracy         0.159-015M.55.816-Quipt Voltage #75V6C           Accuracy         0.158-0.015M.55.816-Quipt Voltage #75V6C           Quint Accuracy         0.158-0.155K.8175.0000.0000.0000.0000.0000.0000.0000.0	Output Power		24kW Max
Quice Line Regulation Quice 20.02% 5.300%         Quice 20.02% 5.300%           Valuage Settion 20.02% 5.300%         Quice 20.03% 0.05% 0.05% 0.00%           Accuracy 20.05% 0.05% 0.05% 0.00% 0.00% 0.00%         Quice 20.05% 0.05% 0.05% 0.00%           Accuracy 20.05% 0.05% 0.05% 0.00% 0.00% 0.00%         Quice 20.05% 0.05% 0.05% 0.00%           Accuracy 20.05% 0.05% 0.05% 0.00% 0.00% 0.00%         Quice 20.05% 0.05% 0.00%           Accuracy 20.05% 0.05% 0.05% 0.00% 0.00%         Quice 20.05% 0.05% 0.00%           Accuracy 20.05% 0.05% 0.05% 0.00% 0.00% 0.00%         Quice 20.05% 0.05% 0.00%           Accuracy 20.05% 0.05% 0.05% 0.05% 0.00% 0.00% 0.00%         Quice 20.05% 0.05% 0.05% 0.00%           Accuracy 20.05% 0.05% 0.05% 0.05% 0.00% 0.00% 0.00%         Quice 20.05% 0.05% 0.05% 0.00%           Accuracy 20.05% 0.05% 0.05% 0.05% 0.00% 0.00% 0.00%         Quice 20.05% 0.05% 0.05% 0.05% 0.00%           Accuracy 20.05% 0.05% 0.05% 0.05% 0.00% 0.00% 0.00%         Quice 20.05% 0.05% 0.05% 0.05% 0.00%           Accuracy 20.05% 0.05% 0.05% 0.05% 0.00% 0.00% 0.00%         Quice 20.05% 0.05% 0.05% 0.00%           Accuracy 20.05% 0.05% 0.05% 0.05% 0.00% 0.00% 0.00%         Quice 20.05% 0.05% 0.05% 0.00%           Accuracy 20.05% 0.05% 0.05% 0.05% 0.05% 0.05% 0.05% 0.05%         Quice 20.05% 0.05%	Lead Devidention	Voltage	180mV
Line Aggide         Content         Resolution           Resolution         10m/V           Resolution         10m/V           Accuracy         0.05%200%5%.31 X5040-00µU Voltage =<7500/6	Load Regulation	Current	1.2A
Note         0.0255.01 SmA           Range         01927           Resolution         0.1%40.1%F.S. at 0.0upt.Voltage ~7.5Vdc           Accuracy         0.1%40.1%F.S. at 0.0upt.Voltage ~7.5Vdc           0.058%.0.05%F.S. at 7.5Vdc 0.0upt.Voltage ~7.200Vdc         0.0004.0000000000000000000000000000000	u p tu	Voltage	0.02%F.S.+30mV
Resolution         Resolution         Conversion           Accuracy         0.1%40.1%ES. at 2500c6           Accuracy         0.05%40.0%ES. at 2500c6           Accuracy         0.1%40.1%ES. at 2500c6           Accuracy         0.01%40.1%ES. at 2500c6           Accuracy         0.01%40.1%ES. at 2500c6           Accuracy         0.01%40.1%ES. at 2500c6           Accuracy         0.1%40.1%ES. at 2500c6           Accuracy         0.1%40.1%ES. at 2500c6           Accuracy         0.1%40.1%ES. at 2500c6           Accuracy         0.1%40.1%ES. at 2500c6           Corracy         0.1%40.1%ES. at 2500c6           Coracy         500000000000000000000000000000	Line Regulation	Current	0.02%F.S.+15mA
<table-container><table-container><table-container><table-container><table-container><table-container><table-container><table-container><table-container><table-container><table-container><table-container><table-container><table-container><table-container><table-container><table-container><table-container><table-container><table-container><table-container><table-container><table-container><table-container><table-container><table-container><table-container><table-container><table-container><table-container><table-container><table-container><table-container></table-container></table-container></table-container></table-container></table-container></table-container></table-container></table-container></table-container></table-container></table-container></table-container></table-container></table-container></table-container></table-container></table-container></table-container></table-container></table-container></table-container></table-container></table-container></table-container></table-container></table-container></table-container></table-container></table-container></table-container></table-container></table-container></table-container>		Range	0~192V
Accuray         0.1%+0.1%Es. 4/0 Auput Voltage -75%dc           Ourrent Setting         0.05%+0.05%+5.87 X7Vdc-0uput Voltage +1200/dc           Current Setting         Reage         0.1%+0.1% KS           Accurage         0.1%+0.1% KS           Reput         0.1%+0.1% KS           Accurage         0.1%+0.1% KS           B00m/p/020mVms         -000mA(TYP Value)           B00m/p/18 Augu         -000mA(TYP Value)           Voltage Setting         Resolution         0.1%+0.1% KS.4.8.4.0.4.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0			10mV
According         0.05k+0.05k+5. at 75Vdc< Ouput Voltage +1200Vdc	voltage Setting		0.1%+0.1%F.S. at 0< Ouput Voltage =<75Vdc
Renge         0-200A           Curnen Setting         Resolution         ImA           Accurage         0.1%1.0%1%           Repola         0.0000/p01/200m/tms           B000Mp/200m/tms         8000Mp/200m/tms           Particle         8000Mp/200m/tms           B000         400mA(Full Range)           400mA(Full Range)         400mA(Full Range)           6main         10mV           Accurage         10mV           6main         10mV           Accurage         10mA           0.1%4-0.0%5% 5.ar 75V/sci Couput Votage =750Vdc           Accurage         10.%40.0%5% 5.ar 75V/sci Couput Votage =750Vdc           Accurage         10.%40.0%5% 5.ar 75V/sci Couput Votage =750Vdc           Current Setting         Range         0.1%40.0%5% 5.ar 75V/sci Couput Votage =750Vdc           Current Setting         50m %400CD, Max Total power less than rated power           Comparition Setting Setting Setting Setting Setting Seting Setting Setting Seting Setting Setting Seting Set		Accuracy	
QuestionResolutionInA Accuracy <td></td> <td>Range</td> <td></td>		Range	
Voltage         180mVp-/30mVms           Ripple         0urrent         800mA(IrUi Range)           400mA(TV Value)         0           Voltage Setting         Range         0-192V           Resolution         10mV         0           Accuracy         0.192V-0.0000         0           Accuracy         0.05%+0.05%F3.st 75Vdc 0upt Voltage =<75Vdc	Current Setting	-	
Voltage         180mVp-/30mVms           Ripple         0urrent         800mA(IrUi Range)           400mA(TV Value)         0           Voltage Setting         Range         0-192V           Resolution         10mV         0           Accuracy         0.192V-0.0000         0           Accuracy         0.05%+0.05%F3.st 75Vdc 0upt Voltage =<75Vdc	0	Accuracy	0.1%+0.10%ES
Ripple         B00m/Liful Range)           Journal/TYP Value)           Journal/TYP Value)           Massarcement           Massarcement           Massarcement           Resolution           Accuracy           On5%+0.05%+5. at 0-0uput Voltage =<75Vdc		-	
Current         400mA(TYP Value)           Measurement           Measurement           Measurement           Range         0-192V           Resolution         10mV           Accuracy         0.1%+0.1%ES. at 0: 0uput Voltage =r35Vdc           0.1%+0.1%ES. at 0: 0uput Voltage =r1200Vdc         0.0%+0.0%ES.st 3: 0: 00000000000000000000000000000000	Ripple		
Measurement           Range         0-192V           Range         0-192V           Resolution         10mv           Accuracy         0.1%+0.1%FS. at 0<0put Voltage ~75Vdc           Operation Kar         0.0%*0.05%FS. at 75Vdc           Resolution         1.m.A           Accuracy         0.1%+0.1%FS           Resolution         1.m.A           Accuracy         0.1%+0.1%FS           Resolution         1.m.A           Accuracy         0.1%+0.1%FS           Comment Sense         Range         4.V(DC), Max. Total power less than rated power           Comm. Respondence.         50ms           Graphic Display         VFD           Operation Key Feature         Soft Key, Numberic Key, Rotary Knob           Rack mout Handles         Yes           FAN         Temperature Control           Protection Circuit Signal         Oct Q.VP. OPP. CIP. FAN           Remote Input signal         Not Support           Remote Output signal         Not Support           Remote Input signal         Not Support           Remote Output signal         Not Support           Remote Output signal         Of C-40°C           Storage Temperature         O/C-40°C	Tuppio	Current	
Range         0~92V           Resolution         10mV           Resolution         10mV           Accuracy         10mSV:0.05%F.S. at 75Vdc = 0.2004c           Accuracy         0~200A           Anage         0~200A           Accuracy         1mA           Accuracy         4V(DC) Max: Total power less than rated power           Comm. Responder         5mS for Schart Kop Schart K	_		
Resolution         10mV           Acturay         0.1%+0.1%F.s. at 0.0 uput Voltage =<75Vdc		Range	
Voltage Setting              Accuracy              0.1%+0.1%-FS. at 0-Quput Voltage =-75Vdc 0.05%+0.0%/FS. at 75Vdc- Quput Voltage =-1200Vdc           Current Setting              Range              0-200A           Current Setting              Range              0-200A           Remote Sense              0.1%+0.1%+FS = Markation (Markation (Marka			
Accuracy         0.05%±0.05%ES.at 75Vdc< Ouput Voltage =<1200Vdc           Ange         0200A           Resolution         1mA           Accuracy         1mA           Accuracy         0.05%±0.05%ES.at 75Vdc           Accuracy         1mA           Accuracy         1mA           Accuracy         1mA           Accuracy         1mA           Comm. Respondence.         50ms           Comm. Respondence.         50ms           Comm. Respondence.         50ms           Operation Key Feature         VFD           Operation Key Feature.         Soft key, Numberic key, Rotary Knob           Ranck mount Handles         Yes           FAN         Yes           Protection Circuits         CoC QVP, OPP OTP FAN           Interface         Yes           Remote Input signal         Not Support           Remote Input signal         Not Support           Remote Input signal Temperature         Orc~40°C           Storage Temperature         Orc~40°C           Storage Temperature         Orc%Co         Operation Cauce           Interface         IOppm/°C at Vottage, 300pm/°C at Current           Operations(WHPD)         Colon/943.0°700.0 mm	Voltage Setting	Reconduction	
Range         0~200A           Resolution         1mA           Accuracy         0.1%+0.10%F.S           Remote Sense         Range         4V(0C), Max. Total power less than rated power           Comm. Respondence.         50ms           Graphic Display         VFD           Operation Key Feature         Soft key, Numberic key, Rotary Knob           Rack mount Handles         Ves           FAN         Temperature Control           Protection Circuits         0.0CP, OVP, OVP, OTP, FAN           Interface         USB, RS485, RS232, LAN(Standard); GPIB(Option)           Remote Input signal         Not Support           Remote Control Input/Output signal characteristics           Remote Input signal Temperature         Not Support           Operation Temperature         0°C-40°C           Storage Temperature         0°C-40°C           Storage Temperature         20°C-70°C           Altitude         2000m           Relative Humidity         10%-90%, non-condensing           Temperature Coefficient         100pm/°C at Voltage, 300pm/°C at Current           Dipensions(W*H*D)         600.0*643.0*700.0 mm           Package Dimensions(W*H*D)         720.0*1160.0*820.0 mm           Not Support         1000.kg+15kg*6 (REF) </td <td></td> <td>Accuracy</td> <td></td>		Accuracy	
Number of the set of		Range	
Accuracy         0.1%+0.10%FS           Remote Sense         Range         4V(DO), Max. Total power less than rated power           Comm. Respondence.         50ms           Graphic Display         VFD           Operation Key Feature         Soft key, Numberic key, Rotary Knob           Rack mount Handles         Yes           FAN         Yes           FAN         Temperature Control           Protection Circuits         OCP, OVP, OPP, OTP, FAN           Interface         USB, RS485, RS232, LAN(Standard); GPIB(Option)           Remote Input signal         Not Support           Remote louptu signal         Not Support           Remote output signal remperature         O°C~40°C           Storage Temperature         0°C~40°C           Dipmn/°C at Voltage, 300ppm/°C at Current         100ppm/°C at Voltage, 300ppm/°C at Current           Temperature Coefficient         100ppm/°C at Voltage, 300ppm/°C at Current           Dipmensions(W'H*D)         720.0*1160.0*820.0 mm           Package Dimensions(	Current Setting		
Extra Function           Remote Sense         Range         4V(DC), Max. Total power less than rated power           Comm. Respondence.         50ms           Graphic Display         VFD           Operation Key Feature         Soft Key, Numberic key, Rotary Knob           Rack mount Handles         Yes           FAN         Temperature Control           Protection Circuits         OCP, OVP, OPP, OTP, FAN           Interface         USB, RS485, RS232, LAN(Standard); GPIB(Option)           Remote Input signal         Not Support           Remote output signal         Not Support           Remote output signal         Not Support           Comm.         Environmental           Operating Temperature         0°C~40°C           Storage Temperature         20°C~70°C           Attitude         2000m           Relative Humidity         10%90%, on-condensing           Temperature Coefficiert         100ppm/°C at Voltage, 300ppm/°C at Current           Dimensions(W*H*D)         600.0*843.0*700.0 mm           Package Dimensions(W*H*D)         720.0*1160.0*820.0 mm           Unit Weight         100.0kg+15kg*6 (REF)           Shipping Weight         100.0kg+15kg*6 (REF)	Current Setting		
Renote Sense         Range         4V(DC), Max. Total power less than rated power           Comm. Respondence.         50ms           Graphi Display         VFD           Operation Key Feature         Soft key, Numberic key, Rotary Knob           Rack mount Handles         Soft key, Numberic key, Rotary Knob           Rack mount Handles         Temperature Control           FAN         Temperature Control           Protection Circuits         0CP, OVP, OVP, OTP, FAN           Interface         USB, RS485, RS232, LAN(Standard); GPIB(Option)           Remote Juput signal         Not Support           Remote uptur signal         Not Support           Remote uptur signal         Not Support           Remote uptur signal         0°C-40°C           Storage Temperature         0°C-40°C           Storage Temperature         0°C-40°C           Representer Storage Temperature         0°C-40°C           Representer Storage Temperature         0°C-40°C           Representer Storage Temperature         0°C-40°C           Storage Temperatur Coefficiert         0°C-40°C           Storage Temperature         0°C-40°C           Storage Temperature         0°C-40°C           Storage Temperature         0°C-40°C           Diftensions(W*H*D) </td <td>_</td> <td>Accuracy</td> <td></td>	_	Accuracy	
Comm. Respondence.         50ms           Graphic Display         VFD           Operation Key Feature         Soft key, Numberic key, Rotary Knob           Rack mount Handles         Yes           FAN         Temperature Control           Protection Circuits         OCP, OVP, OPP, OTP, FAN           Interface         USB, RS485, RS232, LAN(Standard); GPIB(Option)           Remote Control Input/Output signal characteristics           Remote Control Input/Output signal characteristics           Remote Control Input/Output signal characteristics           Remote Ontrol Input/Output signal characteristics           Remote Ontro-Ontrol Input/Output signal characteristics           Remote Storage Temperature         O'C~40°C           Storage Temperature         O'C~40°C           Storage Temperature         O'C~40°C           Relative Humidity         10%-90%, non-condensing           Temperature Coefficient         100ppm/°C at Voltage, 30	Remote Sense	Pange	
Graphic Display         VFD           Operation Key Feature         Soft key, Numberic key, Rotary Knob           Rack mount Handles         Yes           FAN         Temperature Control           Protection Circuits         OCP, OVP, OPP, OTP, FAN           Interface         USB, RS485, RS232, LAN(Standard); GPIB(Option)           Remote Input signal         Not Support           Remote output signal         Not Support           Corrector Circuits         0°C-40°C           Storage Temperature         0°C-40°C           Storage Temperature         0°C-40°C           Altitude         2000m           Relative Humidity         10%-90%, non-condensing           Temperature Coefficient         100/pm/*C at Voltage, 300ppm/*C at Current           Dimensions(W*H*D)         600.0*843.0*700.0 mm           Package Dimensions(W*H*D)         720.0*1160.0*820.0 mm           Dintensions(W*H*D)         100.0kg+15kg*6 (REF)           Storage Temperature         100.0kg+15kg*6 (REF)		-	
Operation Key Feature         Soft key, Numberic key, Rotary Knob           Rack mount Handles         Yes           FAN         Temperature Control           Protection Circuits         OCP, OVP, OPP, OTP, FAN           Interface         USB, RS485, RS232, LAN(Standard); GPIB(Option)           Remote Control Input/Output signal characteristics           Control Control Input/Output Signal Characteristics           Operating Temperature         0°C~40°C           Mechanical         Mechanical	•	e.	
Rack mount Handles         Yes           FAN         Temperature Control           FAN         CP, OVP, OPP, OTP, FAN           Interface         USB, RS485, RS232, LAN(Standard); GPIB(Option)           Remote Control Input/Output signal characteristics           Remote Input signal         Not Support           Remote Control Input/Output signal characteristics           Remote output signal         Not Support           Environmental           Operating Temperature         0°C~40°C           Storage Temperature         -20°C~70°C           Altitude         2000m           Relative Humidity         10%-90%, non-condensing           Temperature Coefficient         100ppm/°C at Voltage, 300ppm/°C at Current           Mechanical           Dimensions(W*H*D)         720.0*1160.0*820.0 mm           Package Dimensions(W*H*D)         720.0*1160.0*820.0 mm           Unit Weight         100.0kg+15kg*6 (REF)           Shipping Weight         160.0kg+15kg*6 (REF)		20	
FAN         Temperature Control           Protection Circuits         OCP, OVP, OPP, OTP, FAN           Interface         USB, RS485, RS232, LAN(Standard); GPIB(Option)           Remote Control Input/Output signal characteristics           Remote Input signal         Not Support           Remote Control Input/Output signal characteristics           Control Input/Output signal characteristics           Remote Output signal           Not Support           Environmental           Orc~40°C           Storage Temperature           Orc~40°C           Advice           Advice           Advice           Storage Temperature           Orc~40°C           Advice           Advice           Advice           Mechanical           Mechanical           Orc%Colspan="2">Mechanical           Mechanical           Dimensions(W*H*D)         600.0*843.0*700.0 mm           Mechanical           Dimensions(W*H*D)         720.0*1160.0*820.0 mm         720.0*1160.0*820.0 mm			
Protection Circuits         OCP, OVP, OPP, OTP, FAN           Interface         USB, RS485, RS232, LAN(Standard), GPIB(Option)           Remote Control Input/Output signal characteristics           Remote Input signal         Not Support           Remote output signal         Not Support           Operating Temperature         0°C~40°C           Operating Temperature         -20°C~70°C           Altitude         2000m           Relative Humidity         10%-90%, non-condensing           Temperature Coefficient         100ppm/°C at Voltage, 300ppm/°C at Current           Mechanical           Dimensions(W*H*D)         600.0*843.0*700.0 mm           Package Dimensions(W*H*D)         720.0*1160.0*820.0 mm           Unit Weight         100.kg+15kg*6 (REF)           Shipping Weight         160.kg+15kg*6 (REF)			
Interface         USB, RS485, RS232, LAN(Standard); GPIB(Option)           Remote Control Input/Output signal characteristics           Remote Input signal         Not Support           Remote output signal         Not Support           Operating Temperature         0°C~40°C           Storage Temperature         0°C~40°C           Altitude         2000m           Relative Humidity         10%-90%, non-condensing           Temperature Coefficient         100ppm/°C at Voltage, 300ppm/°C at Current           Mechanical         Mechanical           Dimensions(W*H*D)         600.0*843.0*700.0 mm           Package Dimensions(W*H*D)         720.0*1160.0*820.0 mm           Unit Weight         100.0kg+15kg*6 (REF)           Shipping Weight         160.0kg+15kg*6 (REF)			
Remote Control Input/Output signal characteristics         Remote Input signal       Not Support         Remote output signal       Not Support         Environmental         Operating Temperature       0°C~40°C         Storage Temperature       -20°C~70°C         Altitude       2000m         Relative Humidity       10%-90%, non-condensing         Temperature Coefficient       100ppm/°C at Voltage, 300ppm/°C at Current         Mechanical         Dimensions(W*H*D)       600.0*843.0*700.0 mm         Package Dimensions(W*H*D)       720.0*1160.0*820.0 mm         Unit Weight       100.0kg+15kg*6 (REF)         Shipping Weight       160.0kg+15kg*6 (REF)			
Remote Input signal         Not Support           Remote output signal         Not Support           Environmental           Operating Temperature         0°C~40°C           Storage Temperature         -20°C~70°C           Altitude         2000m           Relative Humidity         10%-90%, non-condensing           Temperature Coefficient         100ppm/°C at Voltage, 300ppm/°C at Current           Mechanical           Dimensions(W*H*D)         600.0*843.0*700.0 mm           Package Dimensions(W*H*D)         720.0*1160.0*820.0 mm           Package Dimensions(W*H*D)         720.0*1160.0*820.0 mm           Unit Weight         100.kg+15kg*6 (REF)           Shipping Weight         160.kg+15kg*6 (REF)	Interface		
Remote output signal         Not Support           Environmental           Operating Temperature         0°C~40°C           Storage Temperature         -20°C~70°C           Altitude         2000m           Relative Humidity         10%-90%, non-condensing           Temperature Coefficient         100ppm/°C at Voltage, 300ppm/°C at Current           Mechanical           Dimensions(W*H*D)         600.0*843.0*700.0 mm           Package Dimensions(W*H*D)         720.0*1160.0*820.0 mm           Unit Weight         100.kg+15kg*6 (REF)           Shipping Weight         160.0kg+15kg*6 (REF)	Demote land 1		
Environmental         Operating Temperature       0°C~40°C         Storage Temperature       -20°C~70°C         Altitude       2000m         Relative Humidity       10%-90%, non-condensing         Temperature Coefficient       100ppm/°C at Voltage, 300ppm/°C at Current         Mechanical         Dimensions(W*H*D)       600.0*843.0*700.0 mm         Package Dimensions(W*H*D)       720.0*1160.0*820.0 mm         Unit Weight       100.0kg+15kg*6 (REF)         Shipping Weight       160.0kg+15kg*6 (REF)			
Operating Temperature         0°C~40°C           Storage Temperature         -20°C~70°C           Altitude         2000m           Relative Humidity         10%-90%, non-condensing           Temperature Coefficient         100ppm/°C at Voltage, 300ppm/°C at Current           Mechanical           Dimensions(W*H*D)         600.0*843.0*700.0 mm           Package Dimensions(W*H*D)         720.0*1160.0*820.0 mm           Unit Weight         100.0kg+15kg*6 (REF)           Shipping Weight         160.0kg+15kg*6 (REF)	Remote output signa	I	
Storage Temperature     -20°C~70°C       Altitude     2000m       Relative Humidity     10%-90%, non-condensing       Temperature Coefficient     100ppm/°C at Voltage, 300ppm/°C at Current       Mechanical       Dimensions(W*H*D)       600.0*843.0*700.0 mm       Package Dimensions(W*H*D)     720.0*1160.0*820.0 mm       Unit Weight     100.0kg+15kg*6 (REF)       Shipping Weight     160.0kg+15kg*6 (REF)	0		
Altitude     2000m       Relative Humidity     10%-90%, non-condensing       Temperature Coefficient     100ppm/°C at Voltage, 300ppm/°C at Current       Mechanical       Dimensions(W*H*D)       600.0*843.0*700.0 mm       Package Dimensions(W*H*D)     720.0*1160.0*820.0 mm       Unit Weight     100.0kg+15kg*6 (REF)       Shipping Weight     160.0kg+15kg*6 (REF)       Regulatory Compliance			
Relative Humidity     10%-90%, non-condensing       Temperature Coefficient     100ppm/°C at Voltage, 300ppm/°C at Current       Mechanical       Dimensions(W*H*D)       600.0*843.0*700.0 mm       Package Dimensions(W*H*D)     720.0*1160.0*820.0 mm       Unit Weight     100.0kg+15kg*6 (REF)       Shipping Weight     160.0kg+15kg*6 (REF)       Regulatory Compliance		e	
Temperature Coefficient         100ppm/°C at Voltage, 300ppm/°C at Current           Mechanical           Dimensions(W*H*D)         600.0*843.0*700.0 mm           Package Dimensions(W*H*D)         720.0*1160.0*820.0 mm           Unit Weight         100.0kg+15kg*6 (REF)           Shipping Weight         160.0kg+15kg*6 (REF)			
Mechanical           Dimensions(W*H*D)         600.0*843.0*700.0 mm           Package Dimensions(W*H*D)         720.0*1160.0*820.0 mm           Unit Weight         100.0kg+15kg*6 (REF)           Shipping Weight         160.0kg+15kg*6 (REF)			
Dimensions(W*H*D)         600.0*843.0*700.0 mm           Package Dimensions(W*H*D)         720.0*1160.0*820.0 mm           Unit Weight         100.0kg+15kg*6 (REF)           Shipping Weight         160.0kg+15kg*6 (REF)	I emperature Coeffici	lent	
Package Dimensions(W*H*D)     720.0*1160.0*820.0 mm       Unit Weight     100.0kg+15kg*6 (REF)       Shipping Weight     160.0kg+15kg*6 (REF)         Regulatory Compliance			
Unit Weight     100.0kg+15kg*6 (REF)       Shipping Weight     160.0kg+15kg*6 (REF)       Regulatory Compliance			
Shipping Weight 160.0kg+15kg*6 (REF) Regulatory Compliance		(W*H*D)	
Regulatory Compliance	-		
	Shipping Weight		
CE Mark Installation Overvoltage Category II; Class II equipment; indoor use only.			
	CE Mark		Installation Overvoltage Category II; Class II equipment, indoor use only.

\*F.S. represents the maximum value of the output range.
 \*N stands for the number of installed power supply units, and N is greater than 1.

MODEL	С	SPS200VDC12000W-2-13	SPS200VDC24000W-2-19	SPS200VDC40000W-2-27
			Input	
Voltage		190~265VAC		
Frequency		47~63Hz		
Phase		3 Phase, 4Wire+Groud/Y Connect		
Max.Current		75A	150A	250A
Input Power Max		15kW	28.5kW	47.5kW
Power Factorat 220V	AC Input, Full Load	0.98 Min. Active PFC		
Efficiency		>88% Max @Full Load and Units=4k	W Model	
			Output	
Output Voltage		0~200V		
Output Current		0~72A	0~144A	0~240A
Output Power		12kW Max	24kW Max	40kW Max
and Population	Voltage	180mV	360mV	600mV
oad Regulation	Current	72mA	144mA	240mA
ine Regulation	Voltage	0.02%F.S.+30mV		
ine Reguldtion	Current	0.02%F.S.+15mA		
	Range	0~200V		
Voltage Setting	Resolution	1mV		
ronage Setting	Accuracy	0.1%+0.1%F.S. at 0< Ouput Voltage =	<75Vdc	
	Accuracy	0.05%+0.05%F.S. at 75Vdc< Ouput V	oltage =<1200Vdc	
	Range	0~72A	0~144A	0~240A
Current Setting	Resolution	1mA	10mA	10mA
	Accuracy	0.1%+0.10%F.S		
	Voltage	300mVp-p/60mVrms		
Ripple	Current	75mA(Full Range)	150mA(Full Range)	250mA(Full Range)
	Guilent	30mA(TYP Value)	60mA(TYP Value)	100mA(TYP Value)
		Ν	<b>Neasurement</b>	
	Range	0~200V		
	Resolution	1mV		
Voltage Setting	Accuracy	0.1%+0.1%F.S. at 0< Ouput Voltage =	=<75Vdc	
	Accuracy	0.05%+0.05%F.S. at 75Vdc< Ouput Voltage =<1200Vdc		
	Range	0~72A	0~144A	0~240A
Current Setting	Resolution	1mA	10mA	10mA
	Accuracy	0.1%+0.10%F.S		
			Extra Function	
Remote Sense	Range	5V(DC), Max. Total power less than	rated power	
Comm. Respondence	e.	50ms		
Graphic Display		VFD		
	е	Soft key, Numberic key, Rotary Knob	)	
, ,		Yes		
Rack mount Handles		165		
Rack mount Handles		Temperature Control		
Rack mount Handles AN Protection Circuits		Temperature Control OCP, OVP, OPP, OTP, FAN		
Rack mount Handles AN Protection Circuits		Temperature Control OCP, OVP, OPP, OTP, FAN USB, RS485, RS232, LAN(Standard)		
Operation Key Featur Rack mount Handles FAN Protection Circuits Interface		Temperature Control OCP, OVP, OPP, OTP, FAN USB, RS485, RS232, LAN(Standard) Remote Control Input	; GPIB(Option) ;/Output signal characteristics	
Rack mount Handles		Temperature Control OCP, OVP, OPP, OTP, FAN USB, RS485, RS232, LAN(Standard)		
Rack mount Handles FAN Protection Circuits Interface Remote Input signal		Temperature Control OCP, OVP, OPP, OTP, FAN USB, RS485, RS232, LAN(Standard) Remote Control Input Not Support Not Support	/Output signal characteristics	
Ack mount Handles AN Protection Circuits Interface Remote Input signal Remote output signa	I	Temperature Control OCP, OVP, OPP, OTP, FAN USB, RS485, RS232, LAN(Standard) Remote Control Input Not Support Not Support		
Ack mount Handles AN Protection Circuits Interface Remote Input signal Remote output signal Deperating Temperatu	I Ire	Temperature Control OCP, OVP, OPP, OTP, FAN USB, RS485, RS232, LAN(Standard) Remote Control Input Not Support Not Support 0°C~40°C	/Output signal characteristics	
Aack mount Handles AN Protection Circuits Interface Remote Input signal Remote output signal Operating Temperatu Storage Temperatur	I Ire	Temperature Control OCP, OVP, OPP, OTP, FAN USB, RS485, RS232, LAN(Standard) Remote Control Input Not Support Not Support 0°C~40°C -20°C~70°C	/Output signal characteristics	
Aack mount Handles AN Protection Circuits Interface Remote Input signal Remote output signal Operating Temperatu Storage Temperature Altitude	I Ire	Temperature Control OCP, OVP, OPP, OTP, FAN USB, RS485, RS232, LAN(Standard) Remote Control Input Not Support Not Support 0°C~40°C -20°C~70°C 2000m	/Output signal characteristics	
Ack mount Handles AN Protection Circuits Interface Remote Input signal Remote output signal Operating Temperatu Storage Temperature Altitude Relative Humidity	I Ire e	Temperature Control OCP, OVP, OPP, OTP, FAN USB, RS485, RS232, LAN(Standard) Remote Control Input Not Support O°C~40°C -20°C~70°C 2000m 10%-90%, non-condensing	/Output signal characteristics Environmental	
Aack mount Handles AN Protection Circuits Interface Remote Input signal Remote output signal Operating Temperatu Storage Temperature Altitude Relative Humidity	I Ire e	Temperature Control OCP, OVP, OPP, OTP, FAN USB, RS485, RS232, LAN(Standard) Remote Control Input Not Support Not Support 0°C~40°C -20°C~70°C 2000m	/Output signal characteristics Environmental at Current	
Aack mount Handles FAN Protection Circuits Interface Remote Input signal Remote output signal Operating Temperatur Storage Temperature Altitude Relative Humidity Femperature Coeffici	I Ire e	Temperature Control OCP, OVP, OPP, OTP, FAN USB, RS485, RS232, LAN(Standard) Remote Control Input Not Support 0°C~40°C -20°C~70°C 2000m 10%-90%, non-condensing 100ppm/°C at Voltage, 300ppm/°C	/Output signal characteristics Environmental at Current Mechanical	
Aack mount Handles FAN Protection Circuits Interface Remote Input signal Remote output signal Operating Temperatur Storage Temperature Altitude Relative Humidity Temperature Coeffic Dimensions(W*H*D)	I I e ient	Temperature Control OCP, OVP, OPP, OTP, FAN USB, RS485, RS232, LAN(Standard) Remote Control Input Not Support 0°C~40°C -20°C~70°C 2000m 10%-90%, non-condensing 100ppm/°C at Voltage, 300ppm/°C	//Output signal characteristics Environmental at Current Mechanical 600.0*843.0*700.0 mm	600.0*1196.0*700.0 mm
Rack mount Handles FAN Protection Circuits Interface Remote Input signal Remote output signal Operating Temperatur Storage Temperature Altitude Relative Humidity Temperature Coeffic Dimensions(W*H*D) Package Dimensions	I I e ient	Temperature Control           OCP, OVP, OPP, OTP, FAN           USB, RS485, RS232, LAN(Standard)           Remote Control Input           Not Support           0°C~40°C           -20°C~70°C           2000m           10%-90%, non-condensing           100ppm/°C at Voltage, 300ppm/°C           600.0*576.0*700.0 mm           720.0*890.0*820.0 mm	//Output signal characteristics Environmental at Current Mechanical 600.0*843.0*700.0 mm 720.0*1160.0*820.0 mm	720.0*1535.0*820.0 mm
Rack mount Handles FAN Protection Circuits Interface Remote Input signal Remote output signal Operating Temperatur Storage Temperatur Altitude Relative Humidity Temperature Coeffic Dimensions(W*H*D) Package Dimensions Unit Weight	I I e ient	Temperature Control OCP, OVP, OPP, OTP, FAN USB, RS485, RS232, LAN(Standard) Remote Control Input Not Support 0°C~40°C -20°C~70°C 2000m 10%-90%, non-condensing 100ppm/°C at Voltage, 300ppm/°C 600.0*576.0*700.0 mm 720.0*890.0*820.0 mm 54kg+15kg*3 (REF)	//Output signal characteristics Environmental at Current Mechanical 600.0*843.0*700.0 mm 720.0*1160.0*820.0 mm 100.0kg+15kg*6 (REF)	720.0*1535.0*820.0 mm 120.0kg+15kg*10 (REF)
Aack mount Handles AN Protection Circuits Interface Remote Input signal Remote output signal Operating Temperatur Storage Temperature Altitude Relative Humidity Temperature Coeffic Dimensions(W*H*D) Package Dimensions	I I e ient	Temperature Control           OCP, OVP, OPP, OTP, FAN           USB, RS485, RS232, LAN(Standard)           Remote Control Input           Not Support           0°C~40°C           -20°C~70°C           2000m           10%-90%, non-condensing           100ppm/°C at Voltage, 300ppm/°C           600.0*576.0*700.0 mm           720.0*890.0*820.0 mm	//Output signal characteristics Environmental at Current Mechanical 600.0*843.0*700.0 mm 720.0*1160.0*820.0 mm	720.0*1535.0*820.0 mm

MODEL	С	
		SPS225VDC12000W-2-13
		Input
Voltage		190~265VAC
Frequency		47~63Hz
Phase		3 Phase, 4Wire+Groud/Y Connect
Max.Current		75A
Input Power Max		15kW
Power Factorat 220VA	AC Input, Full Load	0.98 Min. Active PFC
Efficiency		>88% Max @Full Load and Units=4kW Model
		Output
Output Voltage		0~225V
Output Current		0~60A
Output Power		12kW Max
	Voltage	120mV
Load Regulation	Current	0.18A
	Voltage	0.02%F.S.+30mV
Line Regulation	Current	0.02%F.S.+15mA
	Range	0~225V
	Resolution	10mV
Voltage Setting		0.1%+0.1%F.S. at 0< Ouput Voltage =<75Vdc
	Accuracy	0.05%+0.05%F.S. at 75Vdc< Ouput Voltage =<1200Vdc
	Range	0~60A
Current Setting	Resolution	0.1mA
g	Accuracy	0.1%+0.10%F.S
	Voltage	60mVp-p/12mVrms
Ripple	ronago	120mA(Full Range)
прре	Current	
_		20mA(TYP Value) Measurement
	Range	0~225V
	Resolution	10mV
Voltage Setting	Resolution	0.1%+0.1%ES. at 0< Ouput Voltage =<75Vdc
	Accuracy	0.05%+0.05%F.S. at 75Vdc< Ouput Voltage =<1200Vdc
	Range	0~60A
Current Setting	Resolution	0~00A
Current Setting	Accuracy	0.1%+0.10%F.S
	Accuracy	Extra Function
Remote Sense	Range	5V(DC), Max. Total power less than rated power
Comm. Respondence	-	50ms
	2.	VED
Graphic Display		
Operation Key Featur		Soft key, Numberic key, Rotary Knob Yes
Rack mount Handles		
FAN		Temperature Control
Protection Circuits		OCP, OVP, OPP, OTP, FAN
		USB, RS485, RS232, LAN(Standard); GPIB(Option)
Protection Circuits Interface		Domoto Control Input/Output organol characteristics
Interface		Remote Control Input/Output signal characteristics
Interface Remote Input signal		Not Support
Interface	1	Not Support Not Support
Interface Remote Input signal Remote output signal		Not Support Not Support Environmental
Interface Remote Input signal Remote output signal Operating Temperatu	ire	Not Support Not Support Environmental 0°C~40°C
Interface Remote Input signal Remote output signal Operating Temperatu Storage Temperature	ire	Not Support Not Support Environmental 0°C~40°C -20°C~70°C
Interface Remote Input signal Remote output signal Operating Temperatu Storage Temperature Altitude	ire	Not Support Not Support Environmental 0°C~40°C -20°C~70°C 2000m
Interface Remote Input signal Remote output signal Operating Temperatu Storage Temperature Altitude Relative Humidity	ire e	Not Support Not Support Environmental 0°C~40°C -20°C~70°C 2000m 10%-90%, non-condensing
Interface Remote Input signal Remote output signal Operating Temperatu Storage Temperature Altitude	ire e	Not Support         Not Support         Environmental         0°C~40°C         -20°C~70°C         2000m         10%-90%, non-condensing         100ppm/°C at Voltage, 300ppm/°C at Current
Interface Remote Input signal Remote output signal Operating Temperature Altitude Relative Humidity Temperature Coeffici	ire e	Not Support Not Support Environmental 0°C~40°C -20°C~70°C 2000m 10%-90%, non-condensing 100ppm/°C at Voltage, 300ppm/°C at Current Mechanical
Interface Remote Input signal Remote output signal Operating Temperature Altitude Relative Humidity Temperature Coeffici Dimensions(W*H*D)	ire e ient	Not Support Not Support Environmental 0°C~40°C -20°C~70°C 2000m 10%-90%, non-condensing 100ppm/°C at Voltage, 300ppm/°C at Current Mechanical 600.0*576.0*700.0 mm
Interface Remote Input signal Remote output signal Operating Temperature Altitude Relative Humidity Temperature Coeffici Dimensions(W*H*D) Package Dimensions	ire e ient	Not Support           Not Support           Environmental           0°C~40°C           -20°C~70°C           2000m           10%-90%, non-condensing           100ppm/°C at Voltage, 300ppm/°C at Current           Mechanical           600.0*576.0*700.0 mm           720.0*890.0*820.0 mm
Interface Remote Input signal Remote output signal Operating Temperature Altitude Relative Humidity Temperature Coeffici Dimensions(W*H*D) Package Dimensions(U	ire e ient	Not Support           Not Support           Environmental           0°C~40°C           -20°C~70°C           2000m           10%-90%, non-condensing           100ppm/°C at Voltage, 300ppm/°C at Current           Mechanical           600.0*576.0*700.0 mm           720.0*890.0*820.0 mm           54kg+15kg*3 (REF)
Interface Remote Input signal Remote output signal Operating Temperature Altitude Relative Humidity Temperature Coeffici Dimensions(W*H*D) Package Dimensions	ire e ient	Not Support           Not Support           Environmental           0°C~~40°C           -20°C~~70°C           2000m           10%-90%, non-condensing           100ppm/°C at Voltage, 300ppm/°C at Current           Mechanical           600.0*576.0*700.0 mm           720.0*890.0*820.0 mm           54kg+15kg*3 (REF)           94kg+15kg*3 (REF)
Interface Remote Input signal Remote output signal Operating Temperature Altitude Relative Humidity Temperature Coeffici Dimensions(W*H*D) Package Dimensions(U	ire e ient	Not Support           Not Support           Environmental           0°C~40°C           -20°C~70°C           2000m           10%-90%, non-condensing           100ppm/°C at Voltage, 300ppm/°C at Current           Mechanical           600.0*576.0*700.0 mm           720.0*890.0*820.0 mm           54kg+15kg*3 (REF)

\*F.S. represents the maximum value of the output range.
 \*N stands for the number of installed power supply units, and N is greater than 1.

MODEL		SPS240VDC9000W-2-13	SPS240VDC24000W-2-19	
			SPS240VDC24000W-2-19	
		Input		
Voltage		190~265VAC		
Frequency		47~63Hz		
Phase		3 Phase,4Wire+Groud/Y Connect		
Max.Current		55A	150A	
Input Power Max		10.5kW	28.5kW	
Power Factorat 220V	AC Input, Full Load	0.98 Min. Active PFC		
Efficiency		>88% Max @Full Load and Units=3kW Model	>88% Max @Full Load and Units=4kW Model	
		Output		
Output Voltage		0~240V		
Output Current		0~60A	0~120A	
Output Power		9kW Max	24kW Max	
Load Regulation	Voltage	120mV	240mV	
	Current	0.18A	0.75A	
ine Regulation	Voltage	0.02%F.S.+30mV		
	Current	0.02%F.S.+15mA		
	Range	0~240V		
Voltage Setting	Resolution	10mV		
, onage benning	Accuracy	0.1%+0.1%F.S. at 0< Ouput Voltage =<75Vdc		
	Accuracy	0.05%+0.05%F.S. at 75Vdc< Ouput Voltage =<1200Vdc		
	Range	0~60A	0~120A	
Current Setting	Resolution	2mA	1mA	
	Accuracy	0.1%+0.10%F.S		
	Voltage	60mVp-p/9mVrms	120mVp-p/18mVrms	
Ripple		150mA(Full Range)	300mA(Full Range)	
	Current	30mA(TYP Value)	0mA(TYP Value)	
		Measurement		
	Range	0~240V		
	Resolution	10mV		
Voltage Setting		0.1%+0.1%F.S. at 0< Ouput Voltage =<75Vdc		
	Accuracy	0.05%+0.05%F.S. at 75Vdc< Ouput Voltage =<1200Vdc		
	Range	0~60A	0~120A	
Current Setting	Resolution	2mA	1mA	
Ū	Accuracy	0.1%+0.10%F.S		
	,	Extra Function		
Remote Sense	Range	5V(DC), Max. Total power less than rated power		
Comm. Respondence	-	50(DC), Max. Total power less than rated power 50ms		
Graphic Display		VFD		
Operation Key Featur	-A	Soft key, Numberic key, Rotary Knob		
operation neg reata		Yes		
Rack mount Handles		Temperature Control		
		OCP, OVP, OPP, OTP, FAN		
FAN		USB, RS485, RS232, LAN(Standard); GPIB(Option)		
FAN Protection Circuits		Remote Control Input/Output signal chara	Interieties	
FAN Protection Circuits		Not Support		
FAN Protection Circuits Interface		Not Support		
FAN Protection Circuits Interface Remote Input signal		Net Overseet		
FAN Protection Circuits Interface Remote Input signal	1	Not Support		
FAN Protection Circuits Interface Remote Input signal Remote output signa		Environmental		
AN Protection Circuits Interface Remote Input signal Remote output signa Operating Temperatu	ire	Environmental 0°C~40°C		
AN Protection Circuits Interface Remote Input signal Remote output signa Operating Temperatu Storage Temperature	ire	Environmental 0°C~40°C -20°C~70°C		
FAN Protection Circuits Interface Remote Input signal Remote output signa Operating Temperatu Storage Temperature Altitude	ire	Environmental 0°C~40°C -20°C~70°C 2000m		
FAN Protection Circuits Interface Remote Input signal Remote output signal Operating Temperatu Storage Temperature Altitude Relative Humidity	ire e	Environmental 0°C~40°C -20°C~70°C 2000m 10%-90%, non-condensing		
AN Protection Circuits Interface Remote Input signal Remote output signal Operating Temperatu Storage Temperature Altitude Relative Humidity	ire e	Environmental 0°C~40°C -20°C~70°C 2000m 10%-90%, non-condensing 100ppm/°C at Voltage, 300ppm/°C at Current		
FAN Protection Circuits Interface Remote Input signal Remote output signal Operating Temperatu Storage Temperature Altitude Relative Humidity Temperature Coeffici	ire e	Environmental 0°C~40°C -20°C~70°C 2000m 10%-90%, non-condensing 100ppm/°C at Voltage, 300ppm/°C at Current Mechanical		
FAN Protection Circuits Interface Remote Input signal Remote output signal Operating Temperatur Storage Temperature Altitude Relative Humidity Temperature Coeffici Dimensions(W*H*D)	ire e ient	Environmental 0°C~40°C -20°C~70°C 2000m 10%-90%, non-condensing 100ppm/°C at Voltage, 300ppm/°C at Current	600.0*843.0*700.0 mm	
Rack mount Handles FAN Protection Circuits Interface Remote Input signal Remote output signal Operating Temperatur Storage Temperatur Altitude Relative Humidity Temperature Coeffici Dimensions(W*H*D) Package Dimensions	ire e ient	Environmental           0°C~40°C           -20°C~70°C           2000m           10%-90%, non-condensing           100ppm/°C at Voltage, 300ppm/°C at Current           Mechanical           600.0*576.0*700.0 mm           720.0*890.0*820.0 mm	600.0*843.0*700.0 mm 720.0*1160.0*820.0 mm	
FAN Protection Circuits Interface Remote Input signal Remote output signal Operating Temperatur Storage Temperature Altitude Relative Humidity Temperature Coeffici Dimensions(W*H*D) Package Dimensions	ire e ient	Environmental 0°C~40°C -20°C~70°C 2000m 10%-90%, non-condensing 100ppm/°C at Voltage, 300ppm/°C at Current Mechanical 600.0*576.0*700.0 mm		
FAN Protection Circuits Interface Remote Input signal Remote output signal Operating Temperatur Storage Temperatur Altitude Relative Humidity Temperature Coeffici Dimensions(W*H*D) Package Dimensions Unit Weight	ire e ient	Environmental           0°C~40°C           -20°C~70°C           2000m           10%-90%, non-condensing           100ppm/°C at Voltage, 300ppm/°C at Current           Mechanical           600.0*576.0*700.0 mm           720.0*890.0*820.0 mm	720.0*1160.0*820.0 mm	
FAN Protection Circuits Interface Remote Input signal Remote output signal Operating Temperatur Storage Temperature Altitude Relative Humidity Temperature Coeffici Dimensions(W*H*D)	ire e ient	Environmental           0°C~40°C           -20°C~70°C           2000m           10%-90%, non-condensing           100ppm/°C at Voltage, 300ppm/°C at Current           Mechanical           600.0*576.0*700.0 mm           720.0*890.0*820.0 mm           54kg+15kg*3 (REF)	720.0*1160.0*820.0 mm 100.0kg+15kg*6 (REF)	

SPS320VD	С	
MODEL		SPS320VDC40000W-2-27
	1	Input
Voltage		190~265VAC
Frequency		47~63Hz
Phase		3 Phase, 4Wire+Groud/Y Connect
Max.Current		250A
Input Power Max		47.5kW
Power Factorat 220VA	C Input, Full Load	0.98 Min. Active PFC
Efficiency		>88% Max @Full Load and Units=4kW Model
		Output
Output Voltage		0~320V
Output Current		0~200A
Output Power	Valtage	40kW Max
Load Regulation	Voltage	300mV
	Current	2A
Line Regulation	Voltage	0.02%F.S.+30mV
	Current	0.02%F.S.+15mA
	Range	0~320V 10mV
Voltage Setting	Resolution	
	Accuracy	0.1%+0.1%F.S. at 0< Ouput Voltage =<75Vdc
	Danas	0.05%+0.05%F.S. at 75Vdc< Ouput Voltage =<1200Vdc
o	Range	0~200A
Current Setting	Resolution	1mA
	Accuracy	0.1%+0.10%F.S
	Voltage	300mVp-p/50mVrms
Ripple	Current	800mA(Full Range)
		400mA(TYP Value)
	Damas	Measurement
	Range	0~320V
Voltage Setting	Resolution	
	Accuracy	0.1%+0.1%F.S. at 0< Ouput Voltage =<75Vdc
	Danas	0.05%+0.05%F.S. at 75Vdc< Ouput Voltage =<1200Vdc
0	Range Resolution	0~200A
Current Setting		1mA 0.1%+0.10%ES
	Accuracy	0.1%+0.10%F.S
Remote Sense	Range	4V(DC), Max. Total power less than rated power
Comm. Respondence	-	50ms
Graphic Display		VFD
Operation Key Feature	e	Soft key, Numberic key, Rotary Knob
Rack mount Handles	-	Yes
FAN		Temperature Control
Protection Circuits		OCP, OVP, OPP, OTP, FAN
Interface		USB, RS485, RS232, LAN(Standard); GPIB(Option)
		Remote Control Input/Output signal characteristics
Remote Input signal		Not Support
Remote output signal		Not Support
		Environmental
Operating Temperatu	re	0°C~40°C
Storage Temperature	2	-20°C~70°C
Altitude		2000m
Relative Humidity		10%-90%, non-condensing
Temperature Coeffici	ent	100ppm/°C at Voltage, 300ppm/°C at Current
		Mechanical
Dimensions(W*H*D)		600.0*1196.0*700.0 mm
Package Dimensions	(W*H*D)	720.0*1535.0*820.0 mm
Unit Weight		120.0kg+15kg*10 (REF)
Shipping Weight		200.0kg+15kg*10(REF)
		Regulatory Compliance
CE Mark		Installation Overvoltage Category II; Class II equipment; indoor use only.

\*F.S. represents the maximum value of the output range. \*N stands for the number of installed power supply units, and N is greater than 1.

SPS360VDC		
MODEL		SPS360VDC12000W-2-13
		Input
Voltage		190~265VAC
Frequency		47~63Hz
Phase		3 Phase, 4Wire+Groud/Y Connect
Max.Current		75A
Input Power Max		15kW
Power Factorat 220VAC	C Input, Full Load	0.98 Min. Active PFC
Efficiency		>88% Max @Full Load and Units=4kW Model
		Output
Output Voltage		0~360V
Output Current		0~40A
Output Power		12kW Max
Load Regulation	Voltage	120mV
Loau Regulation	Current	0.12A
Line Regulation	Voltage	0.02%F.S.+30mV
	Current	0.02%F.S.+15mA
	Range	0~360V
Voltage Sotting	Resolution	10mV
Voltage Setting	Accuracy	0.1%+0.1%F.S. at 0< Ouput Voltage =<75Vdc
	Accuracy	0.05%+0.05%F.S. at 75Vdc< Ouput Voltage =<1200Vdc
	Range	0~40A
Current Setting	Resolution	0.1mA
	Accuracy	0.1%+0.10%F.S
	Voltage	120mVp-p/22.5mVrms
Ripple	<b>a</b>	120mA(Full Range)
	Current	20mA(TYP Value)
		Measurement
	Range	0~360V
	Resolution	10mV
Voltage Setting	Accuracy	0.1%+0.1%F.S. at 0< Ouput Voltage =<75Vdc
	Accuracy	0.05%+0.05%F.S. at 75Vdc< Ouput Voltage =<1200Vdc
	Range	0~40A
Current Setting	Resolution	0.1mA
	Accuracy	0.1%+0.10%F.S
		Extra Function
Remote Sense	Range	5V(DC), Max. Total power less than rated power
Comm. Respondence.		50ms
Graphic Display		VFD
Operation Key Feature		Soft key, Numberic key, Rotary Knob
Rack mount Handles		Yes
FAN		Temperature Control
Protection Circuits		OCP, OVP, OPP, OTP, FAN
Interface		USB, RS485, RS232, LAN(Standard); GPIB(Option)
		Remote Control Input/Output signal characteristics
Remote Input signal		Not Support
		Not Support
Remote output signal		
Remote output signal		Environmental
Remote output signal Operating Temperature	e	Environmental 0°C~40°C
	2	
Operating Temperature	e	0°C~40°C
Operating Temperature Storage Temperature	2	0°C~40°C -20°C~70°C
Operating Temperature Storage Temperature Altitude		0°C~40°C -20°C~70°C 2000m
Operating Temperature Storage Temperature Altitude Relative Humidity		0°C~40°C -20°C~70°C 2000m 10%-90%, non-condensing
Operating Temperature Storage Temperature Altitude Relative Humidity		0°C~40°C -20°C~70°C 2000m 10%-90%, non-condensing 100ppm/°C at Voltage, 300ppm/°C at Current
Operating Temperature Storage Temperature Altitude Relative Humidity Temperature Coefficie	nt	0°C~40°C -20°C~70°C 2000m 10%-90%, non-condensing 100ppm/°C at Voltage, 300ppm/°C at Current Mechanical
Operating Temperature Storage Temperature Altitude Relative Humidity Temperature Coefficie Dimensions(W*H*D)	nt	0°C~40°C -20°C~70°C 2000m 10%-90%, non-condensing 100ppm/°C at Voltage, 300ppm/°C at Current Mechanical 600.0*576.0*700.0 mm
Operating Temperature Storage Temperature Altitude Relative Humidity Temperature Coefficie Dimensions(W*H*D) Package Dimensions(V	nt	0°C~40°C -20°C~70°C 2000m 10%-90%, non-condensing 100ppm/°C at Voltage, 300ppm/°C at Current Mechanical 600.0*576.0*700.0 mm 720.0*890.0*820.0 mm
Operating Temperature Storage Temperature Altitude Relative Humidity Temperature Coefficie Dimensions(W*H*D) Package Dimensions(V Unit Weight	nt	0°C~40°C -20°C~70°C 2000m 10%-90%, non-condensing 10%-90%, non-cond

#### SPS400VDC SPS400VDC40000W-2-27 MODEL Voltage 190~265VAC Frequency 47~63Hz Phase 3 Phase, 4Wire+Groud/Y Connect Max.Current 250A Input Power Max 47.5kW Power Factorat 220VAC Input, Full Load 0.98 Min. Active PFC Efficiency >88% Max @Full Load and Units=4kW Model Output Output Voltage 0~400V Output Current 0~120A Output Power 40kW Max Voltage 400mV Load Regulation Current 1.2A Voltage 0.02%F.S.+30mV Line Regulation Current 0.02%F.S.+15mA Range 0~400V 10mV Resolution Voltage Setting 0.1%+0.1%F.S. at 0< Ouput Voltage =<75Vdc Accuracy 0.05%+0.05%F.S. at 75Vdc< Ouput Voltage =<1200Vdc Range 0~120A Current Setting Resolution 1mA 0.1%+0.10%F.S Accuracy Voltage 200mVp-p/30mVrms Ripple 300mA(Full Range) Current 40mA(TYP Value) Measurement Range 0~400V Resolution 10mV Voltage Setting 0.1%+0.1%F.S. at 0< Ouput Voltage =<75Vdc Accuracy 0.05%+0.05%F.S. at 75Vdc< Ouput Voltage =<1200Vdc Range 0~120A Current Setting Resolution 1mA Accuracy 0 1%+0 10%ES **Extra Function** Remote Sense 5V(DC), Max. Total power less than rated power Range Comm. Respondence 50ms Graphic Display VFD **Operation Key Feature** Soft key, Numberic key, Rotary Knob Rack mount Handles Yes FAN Temperature Control Protection Circuits OCP, OVP, OPP, OTP, FAN Interface USB, RS485, RS232, LAN(Standard); GPIB(Option) Remote Control Input/Output signal characteristi Not Support Remote Input signal Remote output signal Not Support 0°C~40°C Operating Temperature Storage Temperature -20°C~70°C Altitude 2000m Relative Humidity 10%-90%, non-condensing Temperature Coefficient 100ppm/°C at Voltage, 300ppm/°C at Current Mechanical 600.0\*1196.0\*700.0 mm Dimensions(W\*H\*D) Package Dimensions(W\*H\*D) 720.0\*1535.0\*820.0 mm Unit Weight 120.0kg+15kg\*10(REF) Shipping Weight 200.0kg+15kg\*10(REF) **Regulatory Compliance** CE Mark Installation Overvoltage Category II; Class II equipment; indoor use only.

\*F.S. represents the maximum value of the output range.

\*N stands for the number of installed power supply units, and N is greater than 1.

MODEL			
		SPS450VDC12000W-2-13	SPS450VDC24000W-2-19
		Input	
Voltage		190~265VAC	
Frequency		47~63Hz	
Phase		3 Phase, 4Wire+Groud/Y Connect	
Max.Current		75A	150A
Input Power Max		15kW	28.5kW
Power Factorat 220V	AC Input, Full Load	0.98 Min. Active PFC	
Efficiency		>88% Max @Full Load and Units=4kW Model	
		Output	
Output Voltage		0~450V	
Output Current		0~30A	0~60A
Output Power		12kW Max	24kW Max
	Voltage	120mV	240mV
Load Regulation	Current	0.09A	0.36A
ino Dogulation	Voltage	0.02%F.S.+30mV	
ine Regulation	Current	0.02%F.S.+15mA	
	Range	0~450V	
	Resolution	10mV	
Voltage Setting	A	0.1%+0.1%F.S. at 0< Ouput Voltage =<75Vdc	
	Accuracy	0.05%+0.05%F.S. at 75Vdc< Ouput Voltage =<1200Vdc	
	Range	0~30A	0~60A
Current Setting	Resolution	0.1mA	
-	Accuracy	0.1%+0.10%F.S	
	Voltage	120mVp-p/22.5mVrms	120mVp-p/24mVrms
Ripple		120mA(Full Range)	
	Current	20mA(TYP Value)	
_		Measurement	
	Range	0~450V	
	Resolution	10mV	
Voltage Setting	neoonation	0.1%+0.1%F.S. at 0< Ouput Voltage =<75Vdc	
	Accuracy	0.05%+0.05%F.S. at 75Vdc< Ouput Voltage =<1200Vdc	
	Range	0~30A	0~60A
Current Setting	Resolution	0.1mA	0 00/1
ourient Setting	Accuracy	0.1%+0.10%F.S	
_	Accuracy	Extra Function	
	Range	5V(DC), Max. Total power less than rated power	
Pamota Sansa	Range		
	0		
Comm. Respondenc	e.	50ms	
Comm. Respondenc Graphic Display		VFD	
Comm. Respondenc Graphic Display Operation Key Featu	re	VFD Soft key, Numberic key, Rotary Knob	
Comm. Respondenc Graphic Display Operation Key Featu Rack mount Handles	re	VFD Soft key, Numberic key, Rotary Knob Yes	
Remote Sense Comm. Respondenc Graphic Display Operation Key Featu Rack mount Handles FAN	re	VFD Soft key, Numberic key, Rotary Knob Yes Temperature Control	
Comm. Respondenc Graphic Display Operation Key Featu Rack mount Handles FAN Protection Circuits	re	VFD Soft key, Numberic key, Rotary Knob Yes Temperature Control OCP, OVP, OPP, OTP, FAN	
Comm. Respondenc Graphic Display Operation Key Featu Rack mount Handles FAN	re	VFD Soft key, Numberic key, Rotary Knob Yes Temperature Control OCP, OVP, OPP, OTP, FAN USB, RS485, RS232, LAN(Standard); GPIB(Option)	
Comm. Respondenc Graphic Display Operation Key Featu Rack mount Handles FAN Protection Circuits Interface	re 3	VFD Soft key, Numberic key, Rotary Knob Yes Temperature Control OCP, OVP, OPP, OTP, FAN USB, RS485, RS232, LAN(Standard); GPIB(Option) Remote Control Input/Output signal ch	aracteristics
Comm. Respondenc Graphic Display Operation Key Featu Rack mount Handles FAN Protection Circuits Interface Remote Input signal	re 3	VFD Soft key, Numberic key, Rotary Knob Yes Temperature Control OCP, OVP, OPP, OTP, FAN USB, RS485, RS232, LAN(Standard); GPIB(Option) Remote Control Input/Output signal ch Not Support	aracteristics
Comm. Respondenc Graphic Display Operation Key Featu Rack mount Handles FAN Protection Circuits Interface Remote Input signal	re 3	VFD Soft key, Numberic key, Rotary Knob Yes Temperature Control OCP, OVP, OPP, OTP, FAN USB, RS485, RS232, LAN(Standard); GPIB(Option) Remote Control Input/Output signal ch Not Support Not Support	aracteristics
Comm. Respondenc Graphic Display Operation Key Featu Rack mount Handles FAN Protection Circuits Interface Remote Input signal Remote output signal	re 5	VFD Soft key, Numberic key, Rotary Knob Yes Temperature Control OCP, OVP, OPP, OTP, FAN USB, RS485, RS232, LAN(Standard); GPIB(Option) Remote Control Input/Output signal ch Not Support Not Support Environmental	aracteristics
Comm. Respondenc Graphic Display Operation Key Featu Rack mount Handles FAN Protection Circuits Interface Remote Input signal Remote output signal Operating Temperati	re S	VFD Soft key, Numberic key, Rotary Knob Yes Temperature Control OCP, OVP, OPP, OTP, FAN USB, RS485, RS232, LAN(Standard); GPIB(Option) Remote Control Input/Output signal ch Not Support Not Support	aracteristics
Comm. Respondenc Graphic Display Operation Key Featu Rack mount Handles FAN Protection Circuits nterface Remote Input signal Remote output signal Operating Temperatu Storage Temperatu	re S	VFD Soft key, Numberic key, Rotary Knob Yes Temperature Control OCP, OVP, OPP, OTP, FAN USB, RS485, RS232, LAN(Standard); GPIB(Option) Remote Control Input/Output signal ch Not Support Not Support Environmental	aracteristics
Comm. Respondenc Graphic Display Operation Key Featu Rack mount Handles FAN Protection Circuits Interface Remote Input signal Remote output signal Operating Temperatu Storage Temperatur Altitude	re S	VFD Soft key, Numberic key, Rotary Knob Yes Temperature Control OCP, OVP, OPP, OTP, FAN USB, RS485, RS232, LAN(Standard); GPIB(Option) Remote Control Input/Output signal ch Not Support Not Support Environmental O°C~40°C	aracterístics
Comm. Respondence Graphic Display Operation Key Featu Rack mount Handles FAN Protection Circuits Interface Remote Input signal Remote output signal Remote output signal Operating Temperatur Storage Temperatur Altitude Relative Humidity	re s al ure e	VFD         Soft key, Numberic key, Rotary Knob         Yes         Temperature Control         OCP, OVP, OPP, OTP, FAN         USB, RS485, RS232, LAN(Standard); GPIB(Option)         Remote Control Input/Output signal chemic         Not Support         Not Support         Environmental         0°C~40°C         -20°C~70°C	aracteristics
Comm. Respondence Graphic Display Operation Key Featu Rack mount Handles FAN Protection Circuits Interface Remote Input signal Remote output signal Operating Temperatu Storage Temperatur Altitude	re s al ure e	VFD         Soft key, Numberic key, Rotary Knob         Yes         Temperature Control         OCP, OVP, OPP, OTP, FAN         USB, RS485, RS232, LAN(Standard); GPIB(Option)         Remote Control Input/Output signal chemic         Not Support         Not Support         Environmental         0°C~40°C         -20°C~70°C         2000m	aracteristics
Comm. Respondence Graphic Display Operation Key Featu Rack mount Handles FAN Protection Circuits Interface Remote Input signal Remote output signal Remote output signal Operating Temperatur Storage Temperatur Altitude Relative Humidity	re s al ure e	VFD         Soft key, Numberic key, Rotary Knob         Yes         Temperature Control         OCP, OVP, OPP, OTP, FAN         USB, RS485, RS232, LAN(Standard); GPIB(Option)         Remote Control Input/Output signal chemeter         Not Support         Not Support         O°C~40°C         -20°C~70°C         2000m         10%-90%, non-condensing         100ppm/°C at Voltage, 300ppm/°C at Current         Mechanical	
Comm. Respondence Graphic Display Operation Key Featu Rack mount Handles FAN Protection Circuits Interface Remote Input signal Remote output signal Remote output signal Operating Temperatur Storage Temperatur Altitude Relative Humidity	re s al ure e ient	VFD         Soft key, Numberic key, Rotary Knob         Yes         Temperature Control         OCP, OVP, OPP, OTP, FAN         USB, RS485, RS232, LAN(Standard); GPIB(Option)         Remote Control Input/Output signal chemeters         Not Support         Not Support         Environmental         0°C~40°C         -20°C~70°C         2000m         10%-90%, non-condensing         100ppm/°C at Voltage, 300ppm/°C at Current	aracteristics 600.0*843.0*700.0 mm
Comm. Respondence Graphic Display Operation Key Featu Rack mount Handles FAN Protection Circuits Interface Remote Input signal Remote output signal Remote output signal Operating Temperatur Storage Temperatur Altitude Relative Humidity Temperature Coeffic	re al ure ient	VFD         Soft key, Numberic key, Rotary Knob         Yes         Temperature Control         OCP, OVP, OPP, OTP, FAN         USB, RS485, RS232, LAN(Standard); GPIB(Option)         Remote Control Input/Output signal chemeter         Not Support         Not Support         O°C~40°C         -20°C~70°C         2000m         10%-90%, non-condensing         100ppm/°C at Voltage, 300ppm/°C at Current         Mechanical	
Comm. Respondence Graphic Display Operation Key Featu Rack mount Handles FAN Protection Circuits Interface Remote Input signal Remote output signal Remote output signal Operating Temperatur Storage Temperatur Altitude Relative Humidity Temperature Coeffic Dimensions(W*H*D)	re al ure ient	VFD         Soft key, Numberic key, Rotary Knob         Yes         Temperature Control         OCP, OVP, OPP, OTP, FAN         USB, RS485, RS232, LAN(Standard); GPIB(Option)         Remote Control Input/Output signal ch         Not Support         Not Support         Environmental         0°C~40°C         -20°C~70°C         2000m         10%-90%, non-condensing         100ppm/°C at Voltage, 300ppm/°C at Current         Mechanical         600.0*576.0*700.0 mm	600.0*843.0*700.0 mm
Comm. Respondence Graphic Display Operation Key Featu Rack mount Handles FAN Protection Circuits Interface Remote Input signal Remote output signal Remote output signal Operating Temperatur Storage Temperatur Altitude Relative Humidity Temperature Coeffice Dimensions(W*H*D) Package Dimensions	re al ure ient	VFD         Soft key, Numberic key, Rotary Knob         Yes         Temperature Control         OCP, OVP, OPP, OTP, FAN         USB, RS485, RS232, LAN(Standard); GPIB(Option)         Remote Control Input/Output signal ch         Not Support         Not Support         0°C~40°C         -20°C~70°C         2000m         10%-90%, non-condensing         100ppm/°C at Voltage, 300ppm/°C at Current         Mechanical         600.0*576.0*700.0 mm         720.0*890.0*820.0 mm	600.0*843.0*700.0 mm 720.0*1160.0*820.0 mm
Comm. Respondence Graphic Display Operation Key Featu Rack mount Handles FAN Protection Circuits Interface Remote Input signal Remote output signal Remote output signal Operating Temperatur Storage Temperatur Altitude Relative Humidity Temperature Coeffic Dimensions(W*H*D) Package Dimensions Unit Weight	re al ure ient	VFD           Soft key, Numberic key, Rotary Knob           Yes           Temperature Control           OCP, OVP, OPP, OTP, FAN           USB, RS485, RS232, LAN(Standard); GPIB(Option)           Remote Control Input/Output signal ch           Not Support           Not Support           C~40°C           -20°C~70°C           2000m           10%-90%, non-condensing           100ppm/°C at Voltage, 300ppm/°C at Current           Mechanical           600.0*576.0*700.0 mm           720.0*890.0*820.0 mm           54kg+15kg*3 (REF)	600.0*843.0*700.0 mm 720.0*1160.0*820.0 mm 100.0kg+15kg*6 (REF) 160.0kg+15kg*6 (REF)

SPS480VD	С	
MODEL		SPS480VDC18000W-2-19
		Input
Voltage		190~265VAC
Frequency		47~63Hz
Phase		3 Phase, 4Wire+Groud/Y Connect
Max.Current		107A
Input Power Max		20.5kW
Power Factorat 220VA	C Input, Full Load	0.98 Min. Active PFC
Efficiency		>88% Max @Full Load and Units=3kW Model Output
Output Voltage		0~480V
Output Current		0~60A
Output Power		18kW Max
	Voltage	240mV
Load Regulation	Current	0.36A
	Voltage	0.02%F.S.+30mV
Line Regulation	Current	0.02%F.S.+15mA
	Range	0~480V
Valta an Oattin a	Resolution	10mV
Voltage Setting	Accuracy	0.1%+0.1%F.S. at 0< Ouput Voltage =<75Vdc
	Accuracy	0.05%+0.05%F.S. at 75Vdc< Ouput Voltage =<1200Vdc
	Range	0~60A
Current Setting	Resolution	2mA
	Accuracy	0.1%+0.10%F.S
	Voltage	120mVp-p/18mVrms
Ripple	Current	300mA(Full Range)
		60mA(TYP Value)
	2	Measurement
	Range	0~480V
Voltage Setting	Resolution	10mV
	Accuracy	0.1%+0.1%F.S. at 0< Ouput Voltage =<75Vdc
	Danga	0.05%+0.05%F.S. at 75Vdc< Ouput Voltage =<1200Vdc
Current Catting	Range Resolution	2mA
Current Setting	Accuracy	0.1%+0.10%F.S
	Accuracy	Extra Function
Remote Sense	Range	5V(DC), Max. Total power less than rated power
Comm. Respondence		50ms
Graphic Display		VFD
Operation Key Feature	e	Soft key, Numberic key, Rotary Knob
Rack mount Handles		Yes
FAN		Temperature Control
Protection Circuits		OCP, OVP, OPP, OTP, FAN
Interface		USB, RS485, RS232, LAN(Standard); GPIB(Option)
		Remote Control Input/Output signal characteristics
Remote Input signal		Not Support
Remote output signal	I	Not Support
		Environmental
Operating Temperatu	re	0°C~40°C
Storage Temperature	9	-20°C~70°C
Altitude		2000m
Relative Humidity		10%-90%, non-condensing
Temperature Coeffici	ent	100ppm/°C at Voltage, 300ppm/°C at Current
Dimensi (		Mechanical
Dimensions(W*H*D)		600.0*843.0*700.0 mm
Package Dimensions(	(w*H*D)	720.0*1160.0*820.0 mm
Unit Weight		100.0kg+15kg*6 (REF)
Shipping Weight		160.0kg+15kg*6 (REF)
CE Mork		Regulatory Compliance
CE Mark		Installation Overvoltage Category II; Class II equipment; indoor use only.

\*F.S. represents the maximum value of the output range, \*N stands for the number of installed power supply units, and N is greater than 1.

MODEL	C	SPS600VDC12000W-2-13	SPS600VDC24000W-2-19	SPS600VDC40000W-2-27
MODEL		SFS0007DC12000W-2-13		SPS8000DC40000W-2-27
(- lt		100.005140	Input	
/oltage		190~265VAC		
requency		47~63Hz		
Phase		3 Phase, 4Wire+Groud/Y Connect		
Aax.Current		75A	150A	250A
nput Power Max		15kW	28.5kW	47.5kW
Power Factorat 220V	AC Input, Full Load	0.98 Min. Active PFC		
Efficiency		>88% Max @Full Load and Units=4		
		0~600V	Output	
Output Voltage				
Output Current		0~30A	0~60A	0~100A
Output Power	Valtara	12kW Max	24kW Max	40kW Max
oad Regulation	Voltage	240mV	480mV	800mV
	Current	30mA	60mA	100mA
ine Regulation	Voltage	0.02%F.S.+30mV		
	Current	0.02%F.S.+15mA		
	Range	0~600V		
oltage Setting	Resolution	1mV	75/1	
	Accuracy	0.1%+0.1%F.S. at 0< Ouput Voltage		
	-	0.05%+0.05%F.S. at 75Vdc< Ouput		
	Range	0~30A	0~60A	0~100A
Current Setting	Resolution	1mA		
	Accuracy	0.1%+0.10%F.S		
	Voltage	700mVp-p/80mVrms		
Ripple	Current	37.5mA(Full Range)	75mA(Full Range)	125mA(Full Range)
		15mA(TYP Value)	30mA(TYP Value)	50mA(TYP Value)
			Measurement	
	Range	0~600V		
/oltage Setting	Resolution	1mV		
5	Accuracy	0.1%+0.1%F.S. at 0< Ouput Voltage =<75Vdc		
		0.05%+0.05%F.S. at 75Vdc< Ouput		
	Range	0~30A	0~60A	0~100A
Current Setting	Resolution	1mA	1mA	10mA
	Accuracy	0.1%+0.10%F.S		
			Extra Function	
emote Sense	Range	5V(DC), Max. Total power less tha	n rated power	
	e	50ms		
Graphic Display		VFD		
Comm. Respondenc Graphic Display Operation Key Featu	re	Soft key, Numberic key, Rotary Kno	b	
Graphic Display Operation Key Featu Rack mount Handles	re	Soft key, Numberic key, Rotary Kno Yes	bb	
Graphic Display Operation Key Featu Rack mount Handles AN	re	Soft key, Numberic key, Rotary Kno Yes Temperature Control	bb	
Graphic Display Operation Key Featu Rack mount Handles AN Protection Circuits	re	Soft key, Numberic key, Rotary Kno Yes Temperature Control OCP, OVP, OPP, OTP, FAN		
Graphic Display Operation Key Featu tack mount Handles AN Protection Circuits	re	Soft key, Numberic key, Rotary Kno Yes Temperature Control OCP, OVP, OPP, OTP, FAN USB, RS485, RS232, LAN(Standard	i); GPIB(Option)	
Graphic Display Operation Key Featu Rack mount Handles AN Protection Circuits Interface	re 3	Soft key, Numberic key, Rotary Kno Yes Temperature Control OCP, OVP, OPP, OTP, FAN USB, RS485, RS232, LAN(Standard Remote Control Inp		
Graphic Display Operation Key Featu Rack mount Handles AN Protection Circuits Interface Remote Input signal	re S	Soft key, Numberic key, Rotary Kno Yes Temperature Control OCP, OVP, OPP, OTP, FAN USB, RS485, RS232, LAN(Standard	i); GPIB(Option)	
Graphic Display Operation Key Featu tack mount Handles AN Protection Circuits Interface Remote Input signal	re S	Soft key, Numberic key, Rotary Kno Yes Temperature Control OCP, OVP, OPP, OTP, FAN USB, RS485, RS232, LAN(Standard Remote Control Inp	i); GPIB(Option) ut/Output signal characteristics	
iraphic Display operation Key Featu ack mount Handles AN irrotection Circuits interface emote Input signal emote output signal	re 5	Soft key, Numberic key, Rotary Kno Yes Temperature Control OCP, OVP, OPP, OTP, FAN USB, RS485, RS232, LAN(Standard Remote Control Inp Not Support Not Support	i); GPIB(Option)	
Graphic Display Operation Key Featu tack mount Handles AN Protection Circuits Interface Remote Input signal temote output signal	re 5	Soft key, Numberic key, Rotary Kno Yes Temperature Control OCP, OVP, OPP, OTP, FAN USB, RS485, RS232, LAN(Standard Remote Control Inp Not Support	i); GPIB(Option) ut/Output signal characteristics	
aphic Display operation Key Featu ack mount Handles AN irrotection Circuits interface emote Input signal emote output signal operating Temperatu	re S	Soft key, Numberic key, Rotary Kno Yes Temperature Control OCP, OVP, OPP, OTP, FAN USB, RS485, RS232, LAN(Standard Remote Control Inp Not Support Not Support	i); GPIB(Option) ut/Output signal characteristics	
raphic Display Iperation Key Featu ack mount Handles AN rotection Circuits iterface emote Input signal emote output signal perating Temperatu torage Temperatur	re S	Soft key, Numberic key, Rotary Kno Yes Temperature Control OCP, OVP, OPP, OTP, FAN USB, RS485, RS232, LAN(Standard Remote Control Inp Not Support Not Support O°C~40°C	i); GPIB(Option) ut/Output signal characteristics	
araphic Display operation Key Featu (ack mount Handles) AN irrotection Circuits iterface emote Input signal emote output signal operating Temperatu torage Temperatur Utitude	re S	Soft key, Numberic key, Rotary Kno Yes Temperature Control OCP, OVP, OPP, OTP, FAN USB, RS485, RS232, LAN(Standard Remote Control Inp Not Support Not Support O°C~40°C -20°C~70°C	i); GPIB(Option) ut/Output signal characteristics	
Sraphic Display Operation Key Featu Rack mount Handles AN Protection Circuits Interface Remote Input signal Remote output signal Operating Temperatu Storage Temperatur Nititude Relative Humidity	re s al ure e	Soft key, Numberic key, Rotary Kno Yes Temperature Control OCP, OVP, OPP, OTP, FAN USB, RS485, RS232, LAN(Standard Remote Control Inp Not Support Not Support O°C~40°C -20°C~70°C 2000m	t); GPIB(Option) ut/Output signal characteristics Environmental	
Araphic Display Operation Key Featu tack mount Handles AN Protection Circuits Interface Remote Input signal Remote output signal Remote output signal Operating Temperatur Storage Temperatur Nititude Relative Humidity	re s al ure e	Soft key, Numberic key, Rotary Kno Yes Temperature Control OCP, OVP, OPP, OTP, FAN USB, RS485, RS232, LAN(Standard Remote Control Inp Not Support Not Support O°C~40°C -20°C~70°C 2000m 10%-90%, non-condensing	t); GPIB(Option) ut/Output signal characteristics Environmental	
Graphic Display	re s s s s s s s s s s s s s s s s s s s	Soft key, Numberic key, Rotary Kno Yes Temperature Control OCP, OVP, OPP, OTP, FAN USB, RS485, RS232, LAN(Standard Remote Control Inp Not Support Not Support O°C~40°C -20°C~70°C 2000m 10%-90%, non-condensing	i); GPIB(Option) ut/Output signal characteristics Environmental	600.0*1196.0*700.0 mm
Graphic Display Operation Key Featu Rack mount Handles FAN Protection Circuits Interface Remote Input signal Remote output signal Operating Temperatur Storage Temperatur Altitude Relative Humidity Femperature Coeffic	re al ure ient	Soft key, Numberic key, Rotary Kno Yes Temperature Control OCP, OVP, OPP, OTP, FAN USB, RS485, RS232, LAN(Standard Remote Control Inp Not Support Not Support O°C~40°C -20°C~70°C 2000m 10%-90%, non-condensing 100ppm/°C at Voltage, 300ppm/°C	i); GPIB(Option) ut/Output signal characteristics Environmental C at Current Mechanical	600.0*1196.0*700.0 mm 720.0*1535.0*820.0 mm
Sraphic Display Operation Key Featu Rack mount Handles AN Protection Circuits Interface Remote Input signal Remote output signal Operating Temperatur Storage Temperatur Relative Humidity Temperature Coeffic Dimensions(W*H*D) Package Dimensions	re al ure ient	Soft key, Numberic key, Rotary Kno Yes Temperature Control OCP, OVP, OPP, OTP, FAN USB, RS485, RS232, LAN(Standard Remote Control Inp Not Support Not Support O°C~40°C -20°C~70°C 2000m 10%-90%, non-condensing 100ppm/°C at Voltage, 300ppm/°C	i); GPIB(Option) ut/Output signal characteristics Environmental C at Current Mechanical 600.0*843.0*700.0 mm	
Sraphic Display Operation Key Featu Rack mount Handles AN Protection Circuits Interface Remote Input signal Remote output signal Operating Temperatur Storage Temperatur Relative Humidity Temperature Coeffic Dimensions(W*H*D)	re al ure ient	Soft key, Numberic key, Rotary Kno Yes Temperature Control OCP, OVP, OPP, OTP, FAN USB, RS485, RS232, LAN(Standard Remote Control Inp Not Support Not Support O°C~40°C -20°C~70°C 2000m 10%-90%, non-condensing 100ppm/°C at Voltage, 300ppm/°C 600.0*576.0*700.0 mm 720.0*890.0*820.0 mm	i); GPIB(Option) ut/Output signal characteristics Environmental C at Current Mechanical 600.0*843.0*700.0 mm 720.0*1160.0*820.0 mm	720.0*1535.0*820.0 mm

MODEL	С	
MODEL		SPS720VDC24000W-2-19
ļ		Input
Voltage		190~265VAC
Frequency		47~63Hz
Phase		3 Phase, 4Wire+Groud/Y Connect
Max.Current		150A
Input Power Max		28.5kW
Power Factorat 220VA	C Input, Full Load	0.98 Min. Active PFC
Efficiency		>88% Max @Full Load and Units=4kW Model
		Output
Output Voltage		0~720V
Output Current		0~40A
Output Power		24kW Max
Load Regulation	Voltage	240mV
Loud Regulation	Current	0.24A
Line Regulation	Voltage	0.02%F.S.+30mV
Line Regulation	Current	0.02%F.S.+15mA
	Range	0~720V
Voltage Setting	Resolution	10mV
, onlage setting	Accuracy	0.1%+0.1%F.S. at 0< Ouput Voltage =<75Vdc
	Accuracy	0.05%+0.05%F.S. at 75Vdc< Ouput Voltage =<1200Vdc
	Range	0~40A
Current Setting	Resolution	0.1mA
	Accuracy	0.1%+0.10%F.S
	Voltage	240mVp-p/45mVrms
Ripple	0	120mA(Full Range)
	Current	20mA(TYP Value)
		Measurement
	Range	0~720V
	Resolution	10mV
Voltage Setting		0.1%+0.1%F.S. at 0< Ouput Voltage =<75Vdc
	Accuracy	0.05%+0.05%F.S. at 75Vdc< Ouput Voltage =<1200Vdc
	Range	0~40A
Current Setting	Resolution	0.1mA
	Accuracy	0.1%+0.10%F.S
		Extra Function
	Range	5V(DC), Max. Total power less than rated power
Remote Sense		
Remote Sense Comm. Respondence	-	50ms
	-	50ms VFD
Comm. Respondence	2.	
Comm. Respondence Graphic Display Operation Key Featur	e.	VFD
Comm. Respondence Graphic Display	e.	VFD Soft key, Numberic key, Rotary Knob Yes
Comm. Respondence Graphic Display Operation Key Featur Rack mount Handles FAN	e.	VFD Soft key, Numberic key, Rotary Knob Yes Temperature Control
Comm. Respondence Graphic Display Operation Key Featur Rack mount Handles FAN Protection Circuits	e.	VFD Soft key, Numberic key, Rotary Knob Yes Temperature Control OCP, OVP, OPP, OTP, FAN
Comm. Respondence Graphic Display Operation Key Featur Rack mount Handles FAN	e.	VFD Soft key, Numberic key, Rotary Knob Yes Temperature Control
Comm. Respondence Graphic Display Operation Key Featur Rack mount Handles FAN Protection Circuits Interface	e.	VED Soft key, Numberic key, Rotary Knob Yes Temperature Control OCP, OVP, OPP, OTP, FAN USB, RS485, RS232, LAN(Standard); GPIB(Option) Remote Control Input/Output signal characteristics
Comm. Respondence Graphic Display Operation Key Featur Rack mount Handles FAN Protection Circuits Interface Remote Input signal	e.	VFD         Soft key, Numberic key, Rotary Knob         Yes         Temperature Control         OCP, OVP, OPP, OTP, FAN         USB, RS485, RS232, LAN(Standard); GPIB(Option)         Remote Control Input/Output signal characteristics         Not Support
Comm. Respondence Graphic Display Operation Key Featur Rack mount Handles FAN Protection Circuits Interface	e.	VFD         Soft key, Numberic key, Rotary Knob         Yes         Temperature Control         OCP, OVP, OPP, OTP, FAN         USB, RS485, RS232, LAN(Standard); GPIB(Option)         Remote Control Input/Output signal characteristics         Not Support         Not Support
Comm. Respondence Graphic Display Operation Key Featur Rack mount Handles FAN Protection Circuits Interface Remote Input signal Remote output signal	e. e	VED Soft key, Numberic key, Rotary Knob Yes Temperature Control OCP, OVP, OPP, OTP, FAN USB, RS485, RS232, LAN(Standard); GPIB(Option) Remote Control Input/Output signal characteristics Not Support Not Support Environmental
Comm. Respondence Graphic Display Operation Key Featur Rack mount Handles FAN Protection Circuits Interface Remote Input signal Remote output signal Operating Temperatu	e. e I I	VFD         Soft key, Numberic key, Rotary Knob         Yes         Temperature Control         OCP, OVP, OPP, OTP, FAN         USB, RS485, RS232, LAN(Standard); GPIB(Option)         Remote Control Input/Output signal characteristics         Not Support         Not Support         Environmental         0°C~40°C
Comm. Respondence Graphic Display Operation Key Featur Rack mount Handles FAN Protection Circuits Interface Remote Input signal Remote output signal Operating Temperatur Storage Temperature	e. e I I	VFD         Soft key, Numberic key, Rotary Knob         Yes         Temperature Control         OCP, OVP, OPP, OTP, FAN         USB, RS485, RS232, LAN(Standard); GPIB(Option)         Remote Control Input/Output signal characteristics         Not Support         Not Support         Environmental         0°C~40°C         -20°C~70°C
Comm. Respondence Graphic Display Operation Key Featur Rack mount Handles FAN Protection Circuits Interface Remote Input signal Remote output signal Operating Temperatur Storage Temperature Altitude	e. e I I	VFD         Soft key, Numberic key, Rotary Knob         Yes         Temperature Control         OCP, OVP, OPP, OTP, FAN         USB, RS485, RS232, LAN(Standard); GPIB(Option)         Remote Control Input/Output signal characteristics         Not Support         Not Support         O°C~40°C         -20°C~70°C         2000m
Comm. Respondence Graphic Display Operation Key Featur Rack mount Handles FAN Protection Circuits Interface Remote Input signal Remote output signal Operating Temperatu Storage Temperature Altitude Relative Humidity	e. e l l re e	VFD         Soft key, Numberic key, Rotary Knob         Yes         Temperature Control         OCP, OVP, OPP, OTP, FAN         USB, RS485, RS232, LAN(Standard); GPIB(Option)         Remote Control Input/Output signal characteristics         Not Support         Not Support         Environmental         0°C~40°C         -20°C~70°C         2000m         10%-90%, non-condensing
Comm. Respondence Graphic Display Operation Key Featur Rack mount Handles FAN Protection Circuits Interface Remote Input signal Remote output signal Operating Temperatu Storage Temperature Altitude	e. e l l re e	VFD         Soft key, Numberic key, Rotary Knob         Yes         Temperature Control         OCP, OVP, OPP, OTP, FAN         USB, RS485, RS232, LAN(Standard); GPIB(Option)         Remote Control Input/Output signal characteristics         Not Support         Not Support         C~40°C         -20°C~70°C         2000m         10%-90%, non-condensing         100ppm/°C at Voltage, 300ppm/°C at Current
Comm. Respondence Graphic Display Operation Key Featur Rack mount Handles FAN Protection Circuits Interface Remote Input signal Remote output signal Operating Temperatu Storage Temperature Altitude Relative Humidity Temperature Coeffici	e. e l l re e	VFD         Soft key, Numberic key, Rotary Knob         Yes         Temperature Control         OCP, OVP, OPP, OTP, FAN         USB, RS485, RS232, LAN(Standard); GPIB(Option)         Remote Control Input/Output signal characteristics         Not Support         Not Support         Environmental         0°C~40°C         -20°C~70°C         2000m         10%-90%, non-condensing         100ppm/°C at Voltage, 300ppm/°C at Current         Mechanical
Comm. Respondence Graphic Display Operation Key Featur Rack mount Handles FAN Protection Circuits Interface Remote Input signal Remote output signal Operating Temperatur Storage Temperature Altitude Relative Humidity Temperature Coeffici Dimensions(W*H*D)	e. e l l re e ient	VFD         Soft key, Numberic key, Rotary Knob         Yes         Temperature Control         OCP, OVP, OPP, OTP, FAN         USB, RS485, RS232, LAN(Standard); GPIB(Option)         Remote Control Input/Output signal characteristics         Not Support         Not Support         C~40°C         -20°C~70°C         2000m         10%-90%, non-condensing         100ppm/°C at Voltage, 300ppm/°C at Current         Mechanical         600.0*843.0*700.0 mm
Comm. Respondence Graphic Display Operation Key Featur Rack mount Handles FAN Protection Circuits Interface Remote Input signal Remote output signal Operating Temperatur Storage Temperatur Storage Temperatur Altitude Relative Humidity Temperature Coeffici Dimensions(W*H*D) Package Dimensions	e. e l l re e ient	VFD         Soft key, Numberic key, Rotary Knob         Yes         Temperature Control         OCP, OVP, OPP, OTP, FAN         USB, RS485, RS232, LAN(Standard); GPIB(Option)         Remote Control Input/Output signal characteristics         Not Support         Not Support         C~40°C         -20°C~70°C         2000m         10%-90%, non-condensing         100ppm/°C at Voltage, 300ppm/°C at Current         Mechanical         600.0*843.0*700.0 mm         720.0*1160.0*820.0 mm
Comm. Respondence Graphic Display Operation Key Featur Rack mount Handles FAN Protection Circuits Interface Remote Input signal Remote output signal Operating Temperatur Storage Temperature Altitude Relative Humidity Temperature Coeffici Dimensions(W*H*D) Package Dimensions(U	e. e l l re e ient	VFD           Soft key, Numberic key, Rotary Knob           Yes           Temperature Control           OCP, OVP, OPP, OTP, FAN           USB, RS485, RS232, LAN(Standard); GPIB(Option)           Remote Control Input/Output signal characteristics           Not Support           Not Support           C^-40°C           -20°C~70°C           2000m           10%-90%, non-condensing           100ppm/°C at Voltage, 300ppm/°C at Current           Mechanical           600.0*843.0*700.0 mm           720.0*1160.0*820.0 mm           100.kg+15kg*6 (REF)
Comm. Respondence Graphic Display Operation Key Featur Rack mount Handles FAN Protection Circuits Interface Remote Input signal Remote output signal Operating Temperatur Storage Temperatur Storage Temperatur Altitude Relative Humidity Temperature Coeffici Dimensions(W*H*D) Package Dimensions	e. e l l re e ient	VFD         Soft key, Numberic key, Rotary Knob         Yes         Temperature Control         OCP, OVP, OPP, OTP, FAN         USB, RS485, RS232, LAN(Standard); GPIB(Option)         Remote Control Input/Output signal characteristics         Not Support         Not Support         C~40°C         -20°C~70°C         2000m         10%-90%, non-condensing         100ppm/°C at Voltage, 300ppm/°C at Current         Mechanical         600.0*843.0*700.0 mm         720.0*1160.0*820.0 mm

\*F.S. represents the maximum value of the output range.

\*N stands for the number of installed power supply units, and N is greater than 1.

MODEL	С	
		SPS750VDC40000W-2-27
		Input
Voltage		190~265VAC
Frequency		47~63Hz
Phase		3 Phase, 4Wire+Groud/Y Connect
Max.Current		250A
Input Power Max		47.5kW
Power Factorat 220VA	C Input, Full Load	0.98 Min. Active PFC
Efficiency		>88% Max @Full Load and Units=4kW Model
		Output
Output Voltage		0~750V
Output Current		0~60A
Output Power		40kW Max
Load Regulation	Voltage	400mV
Loud Hogelation	Current	0.6A
Line Regulation	Voltage	0.02%F.S.+30mV
	Current	0.02%F.S.+15mA
	Range	0~750V
Voltage Setting	Resolution	10mV
voltage Setting	Accuracy	0.1%+0.1%F.S. at 0< Ouput Voltage =<75Vdc
	Accuracy	0.05%+0.05%F.S. at 75Vdc< Ouput Voltage =<1200Vdc
	Range	0~60A
Current Setting	Resolution	0.1mA
	Accuracy	0.1%+0.10%F.S
	Voltage	200mVp-p/40mVrms
Ripple	Current	120mA(Full Range)
	Current	20mA(TYP Value)
		Measurement
	Range	0~750V
	Resolution	10mV
Voltage Setting	Acouroov	0.1%+0.1%F.S. at 0< Ouput Voltage =<75Vdc
	Accuracy	0.05%+0.05%F.S. at 75Vdc< Ouput Voltage =<1200Vdc
	Range	0~60A
Current Setting	Resolution	0.1mA
	Accuracy	0.1%+0.10%F.S
		Extra Function
	_	5V(DC), Max. Total power less than rated power
Remote Sense	Range	
Remote Sense Comm. Respondence	-	50ms
	-	
Comm. Respondence		50ms
Comm. Respondence Graphic Display		50ms VFD
Comm. Respondence Graphic Display Operation Key Feature		50ms VFD Soft key, Numberic key, Rotary Knob
Comm. Respondence Graphic Display Operation Key Feature Rack mount Handles		50ms VFD Soft key, Numberic key, Rotary Knob Yes
Comm. Respondence Graphic Display Operation Key Feature Rack mount Handles FAN		50ms VFD Soft key, Numberic key, Rotary Knob Yes Temperature Control
Comm. Respondence Graphic Display Operation Key Feature Rack mount Handles FAN Protection Circuits		50ms VFD Soft key, Numberic key, Rotary Knob Yes Temperature Control OCP, OVP, OPP, OTP, FAN
Comm. Respondence Graphic Display Operation Key Feature Rack mount Handles FAN Protection Circuits		50ms VFD Soft key, Numberic key, Rotary Knob Yes Temperature Control OCP, OVP, OPP, OTP, FAN USB, RS485, RS232, LAN(Standard); GPIB(Option)
Comm. Respondence Graphic Display Operation Key Feature Rack mount Handles FAN Protection Circuits Interface	3	50ms VFD Soft key, Numberic key, Rotary Knob Yes Temperature Control OCP, OVP, OPP, OTP, FAN USB, RS485, RS232, LAN(Standard); GPIB(Option) Remote Control Input/Output signal characteristics
Comm. Respondence Graphic Display Operation Key Feature Rack mount Handles FAN Protection Circuits Interface Remote Input signal	3	50ms VFD Soft key, Numberic key, Rotary Knob Yes Temperature Control OCP, OVP, OPP, OTP, FAN USB, RS485, RS232, LAN(Standard); GPIB(Option) Remote Control Input/Output signal characteristics Not Support
Comm. Respondence Graphic Display Operation Key Feature Rack mount Handles FAN Protection Circuits Interface Remote Input signal	2	50ms VFD Soft key, Numberic key, Rotary Knob Yes Temperature Control OCP, OVP, OPP, OTP, FAN USB, RS485, RS232, LAN(Standard); GPIB(Option) Remote Control Input/Output signal characteristics Not Support Not Support
Comm. Respondence Graphic Display Operation Key Feature Rack mount Handles FAN Protection Circuits Interface Remote Input signal Remote output signal	e e re	50ms VFD Soft key, Numberic key, Rotary Knob Yes Temperature Control OCP, OVP, OPP, OTP, FAN USB, RS485, RS232, LAN(Standard); GPIB(Option) Remote Control Input/Output signal characteristics Not Support Not Support Not Support Environmental
Comm. Respondence Graphic Display Operation Key Feature Rack mount Handles FAN Protection Circuits Interface Remote Input signal Remote output signal Operating Temperature	e e re	50ms         VFD         Soft key, Numberic key, Rotary Knob         Yes         Temperature Control         OCP, OVP, OPP, OTP, FAN         USB, RS485, RS232, LAN(Standard); GPIB(Option)         Remote Control Input/Output signal characteristics         Not Support         Not Support         Environmental         0°C~40°C
Comm. Respondence Graphic Display Operation Key Feature Rack mount Handles FAN Protection Circuits Interface Remote Input signal Remote output signal Operating Temperatur Storage Temperature	e e re	50ms VFD Soft key, Numberic key, Rotary Knob Yes Temperature Control OCP, OVP, OPP, OTP, FAN USB, RS485, RS232, LAN(Standard); GPIB(Option) Remote Control Input/Output signal characteristics Not Support Not Support Environmental 0°C~40°C -20°C~70°C
Comm. Respondence Graphic Display Operation Key Feature Rack mount Handles FAN Protection Circuits Interface Remote Input signal Remote output signal Operating Temperature Storage Temperature Altitude	e e re	50ms         VFD         Soft key, Numberic key, Rotary Knob         Yes         Temperature Control         OCP, OVP, OPP, OTP, FAN         USB, RS485, RS232, LAN(Standard); GPIB(Option)         Remote Control Input/Output signal characteristics         Not Support         Not Support         0°C~40°C         -20°C~70°C         2000m
Comm. Respondence Graphic Display Operation Key Feature Rack mount Handles FAN Protection Circuits Interface Remote Input signal Remote output signal Operating Temperature Storage Temperature Altitude Relative Humidity	e e re	50ms         VFD         Soft key, Numberic key, Rotary Knob         Yes         Temperature Control         OCP, OVP, OPP, OTP, FAN         USB, RS485, RS232, LAN(Standard); GPIB(Option)         Remote Control Input/Output signal characteristics         Not Support         Not Support         0°C~40°C         -20°C~70°C         2000m         10%-90%, non-condensing
Comm. Respondence Graphic Display Operation Key Feature Rack mount Handles FAN Protection Circuits Interface Remote Input signal Remote output signal Operating Temperature Storage Temperature Altitude Relative Humidity Temperature Coefficie	e e re	50ms         VFD         Soft key, Numberic key, Rotary Knob         Yes         Temperature Control         OCP, OVP, OPP, OTP, FAN         USB, RS485, RS232, LAN(Standard); GPIB(Option)         Remote Control Input/Output signal characteristics         Not Support         Not Support         0°C~40°C         -20°C~70°C         2000m         10%-90%, non-condensing         100ppm/°C at Voltage, 300ppm/°C at Current
Comm. Respondence Graphic Display Operation Key Feature Rack mount Handles FAN Protection Circuits Interface Remote Input signal Remote output signal Operating Temperature Storage Temperature Altitude Relative Humidity	e ent	50ms         VFD         Soft key, Numberic key, Rotary Knob         Yes         Temperature Control         OCP, OVP, OPP, OTP, FAN         USB, RS485, RS232, LAN(Standard); GPIB(Option)         Remote Control Input/Output signal characteristics         Not Support         Not Support         0°C~40°C         -20°C~70°C         2000m         10%-90%, non-condensing         100ppm/°C at Voltage, 300ppm/°C at Current         Mechanical
Comm. Respondence Graphic Display Operation Key Feature Rack mount Handles FAN Protection Circuits Interface Remote Input signal Remote output signal Operating Temperature Storage Temperature Altitude Relative Humidity Temperature Coefficie Dimensions(W*H*D)	e ent	50ms         VFD         Soft key, Numberic key, Rotary Knob         Yes         Temperature Control         OCP, OVP, OPP, OTP, FAN         USB, RS485, RS232, LAN(Standard); GPIB(Option)         Remote Control Input/Output signal characteristics         Not Support         Not Support         Environmental         0°C~40°C         -20°C~70°C         2000m         10%-90%, non-condensing         100ppm/°C at Voltage, 300ppm/°C at Current         Mechanical         600.0*1196.0*700.0 mm
Comm. Respondence Graphic Display Operation Key Feature Rack mount Handles FAN Protection Circuits Interface Remote Input signal Remote output signal Operating Temperature Storage Temperature Altitude Relative Humidity Temperature Coefficie Dimensions(W*H*D) Package Dimensions(	e ent	50ms         VFD         Soft key, Numberic key, Rotary Knob         Yes         Temperature Control         OCP, OVP, OPP, OTP, FAN         USB, RS485, RS232, LAN(Standard); GPIB(Option)         Remote Control Input/Output signal characteristics         Not Support         Not Support         O°C~40°C         -20°C~70°C         2000m         10%-90%, non-condensing         100ppm/°C at Voltage, 300ppm/°C at Current         Mechanical         600.0*1196.0*700.0 mm         720.0*1535.0*820.0 mm         120.0kg+15kg*10 (REF)
Comm. Respondence Graphic Display Operation Key Feature Rack mount Handles FAN Protection Circuits Interface Remote Input signal Remote output signal Operating Temperature Storage Temperature Altitude Relative Humidity Temperature Coefficie Dimensions(W*H*D) Package Dimensions(	e ent	50ms         VFD         Soft key, Numberic key, Rotary Knob         Yes         Temperature Control         OCP, OVP, OPP, OTP, FAN         USB, RS485, RS232, LAN(Standard); GPIB(Option)         Remote Control Input/Output signal characteristics         Not Support         Environmental         0°C~40°C         -20°C~70°C         2000m         10%-90%, non-condensing         100ppm/°C at Voltage, 300ppm/°C at Current         Mechanical         600.0*1196.0*700.0 mm         720.0*1535.0*820.0 mm

MODEL		SPS800VDC12000W-2-13	SPS800VDC24000W-2-19	SPS800VDC30000W-2-27	SPS800VDC40000W-2-27
			Input		
Voltage		190~265VAC			
Frequency		47~63Hz			
Phase		3 Phase, 4Wire+Groud/Y Conr	nect		
Max.Current		75A	150A	178A	250A
Input Power Max		15kW	28.5kW	34kW	47.5kW
Power Factorat 220V	AC Input, Full Load	0.98 Min. Active PFC			
Efficiency		>88% Max @Full Load and Units=4kW Mod	lel >88% Max @Full Load and Units=4kW Mode	el >88% Max @Full Load and Units=3kW Model	>88% Max @Full Load and Units=4kW N
			Output		
Output Voltage		0~800V			
Output Current		0~22.5A	0~45A	0~60A	0~75A
Output Power		12kW Max	24kW Max	30kW Max	40kW Max
Lead Described	Voltage	1.5V	3V	400mV	5V
Load Regulation	Current	22.5mA	45mA	0.6A	75mA
	Voltage	0.02%F.S.+30mV			
ine Regulation	Current	0.02%F.S.+15mA			
	Range	0~800V			
(altana C-++)	Resolution	1mV	1mV	10mV	1mV
Voltage Setting	A 001/2001	0.1%+0.1%F.S. at 0< Ouput Vol	tage =<75Vdc		
	Accuracy	0.05%+0.05%F.S. at 75Vdc< Ou	put Voltage =<1200Vdc		
	Range	0~22.5A	0~45A	0~60A	0~75A
Current Setting	Resolution	1mA	1mA	2mA	1mA
	Accuracy	0.1%+0.10%F.S			
	Voltage	1600mVp-p/400mVrms	1600mVp-p/400mVrms	200mVp-p/30mVrms	1600mVp-p/400mVrms
Ripple		37.5mA(Full Range)	75mA(Full Range)	500mA(Full Range)	125mA(Full Range)
	Current	15mA(TYP Value)	30mA(TYP Value)	100mA(TYP Value)	50mA(TYP Value)
			Measurement		
	Range	0~800V			
	Resolution	1mV	1mV	10mV	1mV
Voltage Setting		0.1%+0.1%F.S. at 0< Ouput Vol	tage =<75Vdc		
	Accuracy	0.05%+0.05%F.S. at 75Vdc< Ou			
	Range	0~22.5A	0~45A	0~60A	0~75A
Current Setting	Resolution	1mA	1mA	2mA	1mA
J. J	Accuracy	0.1%+0.10%F.S			
	,		Extra Function		
Remote Sense	Range	5V(DC), Max. Total power less			
Comm. Respondence	-	50ms			
Graphic Display		VFD			
Operation Key Featur	e	Soft key, Numberic key, Rotary	Knob		
Rack mount Handles		Yes	11100		
FAN		Temperature Control			
Protection Circuits		OCP, OVP, OPP, OTP, FAN			
Interface		USB, RS485, RS232, LAN(Stan	dard): GPIB(Ontion)		
	_		rol Input/Output signal characteris	stics	
Remote Input signal		Not Support			
Remote output signal		Not Support			
			Environmental		
Operating Temperatu	ire	0°C~40°C			
Storage Temperature		-20°C~70°C			
Altitude		2000m			
Relative Humidity		10%-90%, non-condensing			
	ent	10%-90%, non-condensing 100ppm/°C at Voltage, 300pp	m/°C at Current		
Temperature Cooffic					
Temperature Coeffic		600.0*576.0*700.0 mm	Mechanical 600.0*843.0*700.0 mm	600.0*1196.0*700.0 mm	600.0*1196.0*700.0 mm
			720.0*1160.0*820.0 mm		
Dimensions(W*H*D)	(14/+11+D)		//UU^116UU*82UUmm	720.0*1535.0*820.0 mm	720.0*1535.0*820.0 mm
Dimensions(W*H*D) Package Dimensions	(W*H*D)	720.0*890.0*820.0 mm		100 Ohr (15) (255)	100 01
Temperature Coeffic Dimensions(W*H*D) Package Dimensions Unit Weight	(W*H*D)	54kg+15kg*3 (REF)	100.0kg+15kg*6(REF)	120.0kg+15kg*10(REF)	120.0kg+15kg*10 (REF)
Dimensions(W*H*D) Package Dimensions	(W*H*D)			120.0kg+15kg*10 (REF) 200.0kg+15kg*10 (REF)	120.0kg+15kg*10 (REF) 200.0kg+15kg*10 (REF)

\*F.S. represents the maximum value of the output range.
 \*N stands for the number of installed power supply units, and N is greater than 1.

MODEL	C	
		SPS900VDC24000W-2-13
		Input
Voltage		190~265VAC
Frequency		47~63Hz
Phase		3 Phase, 4Wire+Groud/Y Connect
Max.Current		150A
Input Power Max		28.5kW
Power Factorat 220V	AC Input, Full Load	0.98 Min. Active PFC
Efficiency		>88% Max @Full Load and Units=4kW Model
		Output
Output Voltage		0~900V
Output Current		0~30A
Output Power		24kW Max
Land Damidation	Voltage	240mV
Load Regulation	Current	0.18A
Line Develotion	Voltage	0.02%F.S.+30mV
Line Regulation	Current	0.02%F.S.+15mA
	Range	0~900V
	Resolution	10mV
Voltage Setting		0.1%+0.1%F.S. at 0< Ouput Voltage =<75Vdc
	Accuracy	0.05%+0.05%F.S. at 75Vdc< Ouput Voltage =<1200Vdc
	Range	0~30A
Current Setting	Resolution	0.1mA
5	Accuracy	0.1%+0.10%FS
	Voltage	240mVp-p/45mVrms
Ripple		120mA(Full Range)
Tubbio	Current	20mA(TYP Value)
_		Measurement
	Range	0~900V
	Resolution	10mV
Voltage Setting	Resolution	0.1%+0.1%F.S. at 0< Ouput Voltage =<75Vdc
	Accuracy	0.05%+0.05%F.S. at 75Vdc< Ouput Voltage =<1200Vdc
	Range	0~30A
Current Setting	Resolution	0.1mA
Current Setting		0.1%+0.10%F.S
	Accuracy	Extra Function
Remote Sense	Banga	5V(DC), Max. Total power less than rated power
	Range	
Comm. Respondence	3.	50ms
Graphic Display	•	VFD
		Soft key, Numberic key, Rotary Knob
Operation Key Featur		Yes
Rack mount Handles		Tomporeture Control
Rack mount Handles FAN		Temperature Control
Rack mount Handles FAN Protection Circuits		OCP, OVP, OPP, OTP, FAN
Rack mount Handles FAN		OCP, OVP, OPP, OTP, FAN USB, RS485, RS232, LAN(Standard); GPIB(Option)
Rack mount Handles FAN Protection Circuits Interface		OCP, OVP, OPP, OTP, FAN USB, RS485, RS232, LAN(Standard); GPIB(Option) Remote Control Input/Output signal characteristics
Rack mount Handles FAN Protection Circuits Interface Remote Input signal		OCP, OVP, OPP, OTP, FAN USB, RS485, RS232, LAN(Standard); GPIB(Option) Remote Control Input/Output signal characteristics Not Support
Rack mount Handles FAN Protection Circuits Interface		OCP, OVP, OPP, OTP, FAN USB, RS485, RS232, LAN(Standard); GPIB(Option) Remote Control Input/Output signal characteristics Not Support Not Support
Rack mount Handles FAN Protection Circuits Interface Remote Input signal Remote output signa	1	OCP, OVP, OPP, OTP, FAN USB, RS485, RS232, LAN(Standard); GPIB(Option) Remote Control Input/Output signal characteristics Not Support Not Support Environmental
Rack mount Handless FAN Protection Circuits Interface Remote Input signal Remote output signa Operating Temperatu	l Ire	OCP, OVP, OPP, OTP, FAN         USB, RS485, RS232, LAN(Standard); GPIB(Option)         Remote Control Input/Output signal characteristics         Not Support         Not Support         Environmental         0°C~40°C
Rack mount Handless FAN Protection Circuits Interface Remote Input signal Remote output signal Operating Temperatur Storage Temperatur	l Ire	OCP, OVP, OPP, OTP, FAN         USB, RS485, RS232, LAN(Standard); GPIB(Option)         Remote Control Input/Output signal characteristics         Not Support         Not Support         Environmental         0°C~40°C         -20°C~70°C
Rack mount Handless FAN Protection Circuits Interface Remote Input signal Remote output signal Operating Temperatu Storage Temperature Altitude	l Ire	OCP, OVP, OPP, OTP, FAN         USB, RS485, RS232, LAN(Standard); GPIB(Option)         Remote Control Input/Output signal characteristics         Not Support         Not Support         Environmental         0°C~40°C         -20°C~70°C         2000m
Rack mount Handless FAN Protection Circuits Interface Remote Input signal Remote output signal Operating Temperatu Storage Temperatur Altitude Relative Humidity	I I 9	OCP, OVP, OPP, OTP, FAN         USB, RS485, RS232, LAN(Standard); GPIB(Option)         Remote Control Input/Output signal characteristics         Not Support         Not Support         Environmental         0°C~40°C         -20°C~70°C
Rack mount Handless FAN Protection Circuits Interface Remote Input signal Remote output signal Operating Temperatu Storage Temperature Altitude	I I 9	OCP, OVP, OPP, OTP, FAN         USB, RS485, RS232, LAN(Standard); GPIB(Option)         Remote Control Input/Output signal characteristics         Not Support         Not Support         Environmental         0°C~40°C         -20°C~70°C         2000m
Rack mount Handless FAN Protection Circuits Interface Remote Input signal Remote output signal Operating Temperatu Storage Temperature Altitude Relative Humidity	I I 9	OCP, OVP, OPP, OTP, FAN         USB, RS485, RS232, LAN(Standard); GPIB(Option)         Remote Control Input/Output signal characteristics         Not Support         Not Support         Environmental         0°C~40°C         -20°C~70°C         2000m         10%-90%, non-condensing
Rack mount Handless FAN Protection Circuits Interface Remote Input signal Remote output signal Operating Temperatu Storage Temperatur Altitude Relative Humidity	I I 9	OCP, OVP, OPP, OTP, FAN         USB, RS485, RS232, LAN(Standard); GPIB(Option)         Remote Control Input/Output signal characteristics         Not Support         Not Support         C~40°C         -20°C~70°C         2000m         10%-90%, non-condensing         100ppm/°C at Voltage, 300ppm/°C at Current
Rack mount Handless FAN Protection Circuits Interface Remote Input signal Remote output signal Operating Temperatu Storage Temperature Altitude Relative Humidity Temperature Coeffici	I Ire e ent	OCP, OVP, OPP, OTP, FAN         USB, RS485, RS232, LAN(Standard); GPIB(Option)         Remote Control Input/Output signal characteristics         Not Support         Not Support         C~40°C         -20°C~70°C         2000m         10%-90%, non-condensing         100ppm/°C at Voltage, 300ppm/°C at Current         Mechanical
Rack mount Handless FAN Protection Circuits Interface Remote Input signal Remote output signal Operating Temperatur Storage Temperatur Altitude Relative Humidity Temperature Coeffici Uimensions(W*H*D)	I Ire e ent	OCP, OVP, OPP, OTP, FAN         USB, RS485, RS232, LAN(Standard); GPIB(Option)         Remote Control Input/Output signal characteristics         Not Support         Not Support         0°C~40°C         -20°C~70°C         2000m         10%-90%, non-condensing         100ppm/°C at Voltage, 300ppm/°C at Current         Mechanical         600.0*843.0*700.0 mm
Rack mount Handless FAN Protection Circuits Interface Remote Input signal Remote output signal Operating Temperatur Storage Temperatur Altitude Relative Humidity Temperature Coeffici Dimensions(W*H*D) Package Dimensions	I Ire e ent	OCP, OVP, OPP, OTP, FAN         USB, RS485, RS232, LAN(Standard); GPIB(Option)         Remote Control Input/Output signal characteristics         Not Support         Not Support         0°C~40°C         -20°C~70°C         2000m         10%-90%, non-condensing         100ppm/°C at Voltage, 300ppm/°C at Current         Mechanical         600.0*843.0*700.0 mm         720.0*1160.0*820.0 mm
Rack mount Handless FAN Protection Circuits Interface Remote Input signal Remote output signal Goperating Temperatur Storage Temperatur Altitude Relative Humidity Temperature Coeffici Dimensions(W*H*D) Package Dimensions Unit Weight	I Ire e ent	OCP, OVP, OPP, OTP, FAN           USB, RS485, RS232, LAN(Standard); GPIB(Option)           Remote Control Input/Output signal characteristics           Not Support           Not Support           0°C~40°C           -20°C~70°C           2000m           10%-90%, non-condensing           100ppm/°C at Voltage, 300ppm/°C at Current           Mechanical           600.0*843.0*700.0 mm           720.0*1160.0*820.0 mm           100.0kg+15kg*6 (REF)

MODEL		SPS1200VDC24000W-2-19	SPS1200VDC40000W-2-27	
		Input		
Voltage		190~265VAC		
Frequency		47~63Hz		
Phase		3 Phase, 4Wire+Groud/Y Connect		
Max.Current		150A	250A	
Input Power Max		28.5kW	47.5kW	
Power Factorat 220VAC Input, Full Load		0.98 Min. Active PFC	47.JKW	
Efficiency		>88% Max @Full Load and Units=4kW Model		
Linciency		Output		
Output Voltage		0~1200V		
Output Current		0~24A	0~40A	
Output Current Output Power		24kW Max		
	Voltage		40kW Max	
Load Regulation		360mV	400mV	
	Current	144mA	0.4A	
Line Regulation	Voltage	0.02%F.S.+30mV		
	Current	0.02%F.S.+15mA		
Voltage Setting	Range	0~1200V		
	Resolution	0.1V		
	Accuracy	0.1%+0.1%F.S. at 0< Ouput Voltage =<75Vdc		
		0.05%+0.05%F.S. at 75Vdc< Ouput Voltage =<1200Vdc		
Current Setting	Range	0~24A	0~40A	
	Resolution	0.1mA		
	Accuracy	0.1%+0.10%F.S		
Ripple	Voltage	450mVp-p/90mVrms	400mVp-p/75mVrms	
	Current	100mA(Full Range)	120mA(Full Range)	
	ounone	40mA(TYP Value)	20mA(TYP Value)	
		Measurement		
Voltage Setting	Range	0~1200V	0~1200V	
	Resolution	0.1V	0.1V	
	Accuracy	0.1%+0.1%F.S. at 0< Ouput Voltage =<75Vdc		
	Recuracy	0.05%+0.05%F.S. at 75Vdc< Ouput Voltage =<1200Vdc		
Current Setting	Range	0~24A	0~40A	
	Resolution	0.1mA		
	Accuracy	0.1%+0.10%F.S		
		Extra Function		
Remote Sense	Range	5V(DC), Max. Total power less than rated power		
Comm. Respondence.		50ms		
Graphic Display		VFD		
Operation Key Feature		Soft key, Numberic key, Rotary Knob		
Rack mount Handles		Yes		
FAN		Temperature Control		
Protection Circuits		OCP, OVP, OPP, OTP, FAN		
Interface		USB, RS485, RS232, LAN(Standard); GPIB(Option)		
		Remote Control Input/Output signal chara	acteristics	
Remote Input signal		Not Support		
Remote output signal		Not Support		
		Environmental	the second s	
Operating Temperati	ure	0°C~40°C		
Storage Temperature		-20°C~70°C		
Altitude		2000m		
Relative Humidity		10%-90%, non-condensing		
Temperature Coefficient				
		100ppm/°C at Voltage, 300ppm/°C at Current Mechanical		
		600.0*843.0*700.0 mm	600.0*1196.0*700.0 mm	
	,			
Dimensions(W*H*D)				
Dimensions(W*H*D) Package Dimensions		720.0*1160.0*820.0 mm	720.0*1535.0*820.0 mm	
Dimensions(W*H*D) Package Dimensions Unit Weight		100.0kg+15kg*6 (REF)	120.0kg+15kg*10 (REF)	
Dimensions(W*H*D) Package Dimensions				

\*F.S. represents the maximum value of the output range. \*N stands for the number of installed power supply units, and N is greater than 1.

#### **APM Technologies Ltd**

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