



SP-3U/6U Series Wide-range High-power Programmable DC Power Supply & System

■ High Efficiency

■ High Precision

■ High Stability

➤➤ Application Guide

■ DC Power Supply: P2-P9

■ DC Power Supply System: P10-P17

SP-3U/6U Series Wide-range High-power Programmable DC Power Supply

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(3U)6000W~18000W



(6U)24000W~36000W

Rated Voltage	Output		Model	Size	Ripple		Response		Internal Resistance
	Rated Current	Rated Power			Voltage	Current	Voltage increase	Voltage Drop	
80V	200A	6000W	SP80VDC6000W	3U ①	<180mVpp, <15mVrms	<100mArms	<15ms (No Load) <30ms (Full Load)	<850ms (No Load) <15ms (Full Load)	0~12Ω
	400A	12000W	SP80VDC12000W	3U ②	<288mVpp, <23mVrms	<200mArms			0~6Ω
	600A	18000W	SP80VDC18000W	3U ③	<320mVpp, <25mVrms	<300mArms			0~4Ω
	800A	24000W	SP80VDC24000W	6U ④	<320mVpp, <25mVrms	<360mArms			0~3.0Ω
	1000A	30000W	SP80VDC30000W	6U ⑤	<320mVpp, <25mVrms	<450mArms			0~2.4Ω
	1200A	36000W	SP80VDC36000W	6U ⑥	<320mVpp, <25mVrms	<540mArms			0~2.0Ω
165V	180A	12000W	SP165VDC12000W	3U ②	<540mVpp, <50mVrms	<100mArms	<15ms (No Load) <30ms (Full Load)	<900ms (No Load) <15ms (Full Load)	0~27.5Ω
	360A	24000W	SP165VDC24000W	6U ④	<540mVpp, <50mVrms	<200mArms			0~13.75Ω
	540A	36000W	SP165VDC36000W	6U ⑥	<540mVpp, <50mVrms	<300mArms			0~9.167Ω
250V	180A	18000W	SP250VDC18000W	3U ③	<550mVpp, <50mVrms	<100mArms	<15ms (No Load) <30ms (Full Load)	<950ms (No Load) <15ms (Full Load)	0~41.6667Ω
360V	42.5A	6000W	SP360VDC6000W	3U ①	<320mVpp, <55mVrms	<21mArms	<15ms (No Load) <80ms (Full Load)	<800ms (No Load) <15ms (Full Load)	0~440Ω
	85A	12000W	SP360VDC12000W	3U ②	<320mVpp, <55mVrms	<43mArms			0~220Ω
	127.5A	18000W	SP360VDC18000W	3U ③	<320mVpp, <55mVrms	<64mArms			0~147Ω
	170A	24000W	SP360VDC24000W	6U ④	<350mVpp, <60mVrms	<85mArms			0~64Ω
	212.5A	30000W	SP360VDC30000W	6U ⑤	<350mVpp, <60mVrms	<106mArms			0~51Ω
	255A	36000W	SP360VDC36000W	6U ⑥	<350mVpp, <60mVrms	<128mArms			0~43Ω
500V	32A	6000W	SP500VDC6000W	3U ①	<600mVpp, <150mVrms	<16mArms	<15ms (No Load) <80ms (Full Load)	<1500ms (No Load) <15ms (Full Load)	0~469Ω
	64A	12000W	SP500VDC12000W	3U ②	<650mVpp, <160mVrms	<32mArms			0~235Ω
	96A	18000W	SP500VDC18000W	3U ③	<650mVpp, <160mVrms	<48mArms			0~157Ω
	128A	24000W	SP500VDC24000W	6U ④	<650mVpp, <160mVrms	<64mArms			0~118Ω
	160A	30000W	SP500VDC30000W	6U ⑤	<650mVpp, <160mVrms	<80mArms			0~94Ω
	192A	36000W	SP500VDC36000W	6U ⑥	<650mVpp, <160mVrms	<96mArms			0~79Ω
750V	21A	6000W	SP750VDC6000W	3U ①	<900mVpp, <225mVrms	<11mArms	<15ms (No Load) <80ms (Full Load)	<600ms (No Load) <20ms (Full Load)	0~1072Ω
	42A	12000W	SP750VDC12000W	3U ②	<1000mVpp, <250mVrms	<22mArms			0~536Ω
	63A	18000W	SP750VDC18000W	3U ③	<1000mVpp, <250mVrms	<33mArms			0~358Ω
	84A	24000W	SP750VDC24000W	6U ④	<1000mVpp, <250mVrms	<44mArms			0~268Ω
	105A	30000W	SP750VDC30000W	6U ⑤	<1000mVpp, <250mVrms	<55mArms			0~215Ω
	126A	36000W	SP750VDC36000W	6U ⑥	<1000mVpp, <250mVrms	<66mArms			0~179Ω
1000V	32A	12000W	SP1000VDC12000W	3U ②	<1500mVpp, <320mVrms	<22mArms	<15ms (No Load) <85ms (Full Load)	<1700ms (No Load) <15ms (Full Load)	0~937.5Ω
	64A	24000W	SP1000VDC24000W	6U ④	<1500mVpp, <320mVrms	<26mArms	<15ms (No Load) <80ms (Full Load)	<1700ms (No Load) <15ms (Full Load)	0~468.75Ω
	96A	36000W	SP1000VDC36000W	6U ⑥	<1500mVpp, <320mVrms	<48mArms	<15ms (No Load) <80ms (Full Load)	<1700ms (No Load) <15ms (Full Load)	0~312.5Ω
1500V	21A	12000W	SP1500VDC12000W	3U ②	<2500mVpp, <600mVrms	<11mArms	<15ms (No Load) <80ms (Full Load)	<700ms (No Load) <20ms (Full Load)	0~2142Ω
	32A	18000W	SP1500VDC18000W	3U ③	<1950mVpp, <650mVrms	<22mArms	<15ms (No Load) <90ms (Full Load)	<1800ms (No Load) <15ms (Full Load)	0~1406.25Ω
	42A	24000W	SP1500VDC24000W	6U ④	<2500mVpp, <600mVrms	<22mArms	<15ms (No Load) <80ms (Full Load)	<700ms (No Load) <20ms (Full Load)	0~1071Ω
	63A	36000W	SP1500VDC36000W	6U ⑥	<2500mVpp, <600mVrms	<33mArms	<15ms (No Load) <80ms (Full Load)	<700ms (No Load) <20ms (Full Load)	0~714Ω
2250V	21A	18000W	SP2250VDC18000W	3U ③	<3200mVpp, <750mVrms	<11mArms	<15ms (No Load) <85ms (Full Load)	<800ms (No Load) <20ms (Full Load)	0~3214Ω

Dimensions & Weight



① 423.0x133.0x718.0 mm & 27kg



② 423.0x133.0x718.0 mm & 38kg



③ 423.0x133.0x718.0mm & 50kg



④ 423.0x265.0x745.0 mm & 75kg



⑤ 423.0x265.0x745.0 mm & 86kg



⑥ 423.0x265.0x745.0 mm & 97kg

Optional Information

(1) US standard, input voltage range: 187~305Vac*

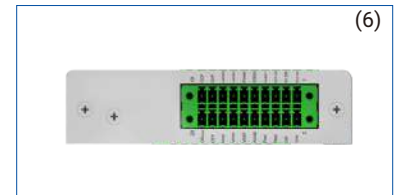
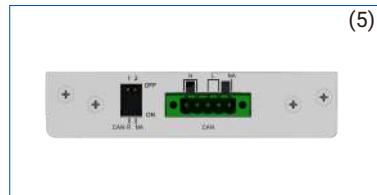
(2) European standard, input voltage range: 340~480Vac*

(3) Continuous source & sink function*

(4) GPIB & LAN communication card & cables

(5) CAN communication card

(6) TTL/Analog control card



* These options must be specified at the time of order as they are installed at the factory prior to shipment.

Features

- Large color touch screen with intuitive interface provides an excellent intuition operational experience.
- 3-phase input voltage meets worldwide power distribution regulation, AC mains 187~265Vac/340~460Vac for optional.
- Constant voltage (CV), constant current (CC) and constant power (CP) operation mode, CC or CV working priority setting.
- Adjustable voltage/current slew rate.
- DDS arbitrary function generator.*
- Solar panel I-V curve simulation function.*
- Smart 3-stage charging algorithm simulation.*
- Battery simulator function.*
- Continuous source & sink function, with APM DC E-load to expand loading capability (optional).
- List/ Step mode programming.
- TTL/Analog control and monitoring.
- Built-in standard automotive power network voltage curves.*
- Full protection: OVP, OCP, OPP and OTP protection.
- Supports master-slave mode, paralleling up to 16 units.
- Supports SCPI commands, provides web GUI function.

* Only professional version units support these functions.

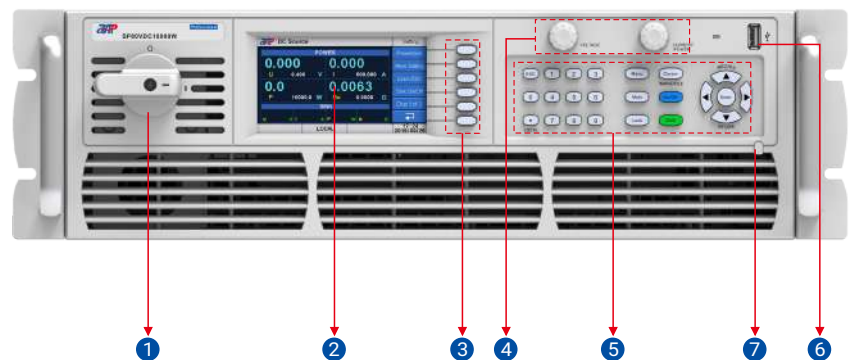
Supported Functions Professional Version Only

No.	Description	Application
1	DDS arbitrary function generator	Includes a true function generator, built-in typical functions, supports complex waveforms creation, used for testing purposes in development and production
2	Solar panel I-V curve simulation function	Users can set the parameters to simulate I-V curve characteristic output
3	Smart 3-stage charging algorithm simulation	Commonly used charging curve simulation
4	Battery simulator function	Truly simulate the changes of internal resistance of battery in charging and discharging test.
5	Built-in standard automotive power network voltage curves	Users can recall the built-in standard curve to do the DUT performance test directly.

Panel Introduction

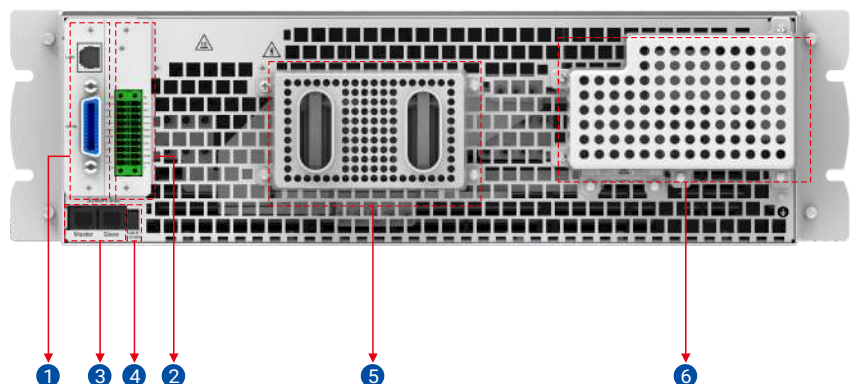
Front Panel Description

- ① Power switch
- ② Color touch screen
- ③ Selection soft keys
- ④ Voltage/Current & Power knob
- ⑤ Numeric and functional keys
- ⑥ USB port, for data transfers and firmware upgrading
- ⑦ Stylus



Rear Panel Description

- ① RS485/RS232/USB communication interface (standard), LAN&GPIB communication interface (optional), CAN communication interface (optional)*
- ② External TTL/Analog control interface.
- ③ System Bus, for master/slave system data transmission
- ④ Termination resistor CAN-R
- ⑤ DC output negative/positive terminal
- ⑥ AC mains input connector



* These interface option installs in place of the standard RS485/RS232/USB interfaces, occupies the same physical slot.

Function Introduction

Graphical User Interface

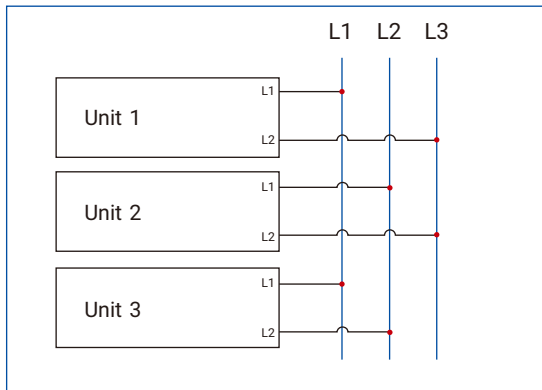
The large color touch screen provides simple and fast operation for customers, real-time update of display output data and power status. The actual values are displayed with bigger characters, so they can be read from a large distance.



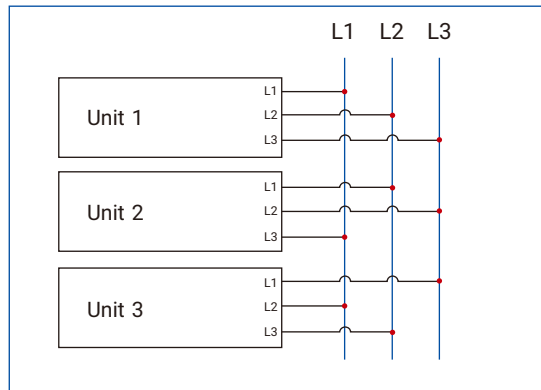
Wide Input Voltage Range & High Power Density

3-phase input voltage range 187~460Vac meets worldwide power distribution regulation. 36kW/6U high density, higher efficiency, lower ripple and fast response make it ideal for test requirements in different periods of different applications. This series power supply can have from one to three internal 6kW power blocks, each of which is connected across a separate phase of the 3-phase AC mains. The following figures illustrate how to install three 6kW units or three 12kW to obtain a balanced current draw on the 3-phase AC mains.

Phase balancing connection for three 6kW units

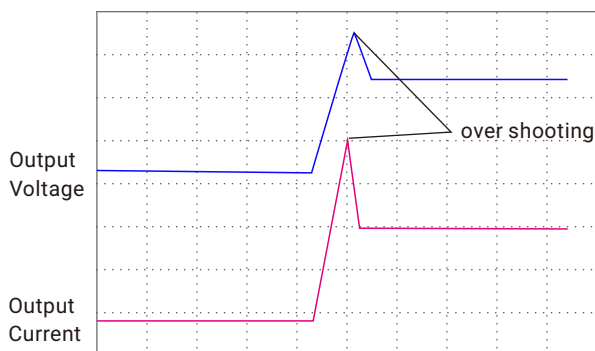


Phase balancing connection for three 12kW units

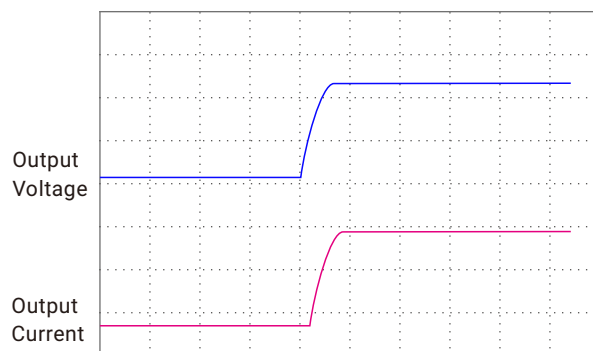


CC & CV Priority

This series power supply provides CC/CV priority function allows the user to select suitable mode correspond to test requirement, let the output be voltage high speed or current no overshoot mode. Below shows an application of CC priority to avoid current overshoot during LED test.



CV priority in LED test

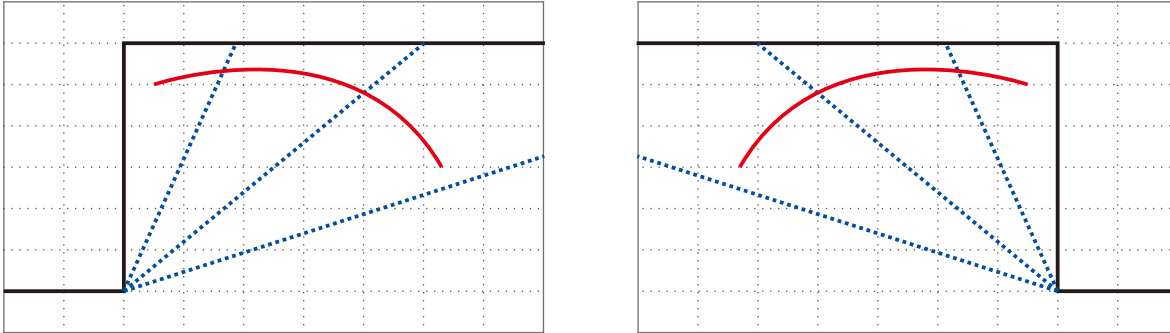


CC priority in LED test

SP-3U/6U Series Wide-range High-power Programmable DC Power Supply

Adjustable Voltage/Current Slew Rate

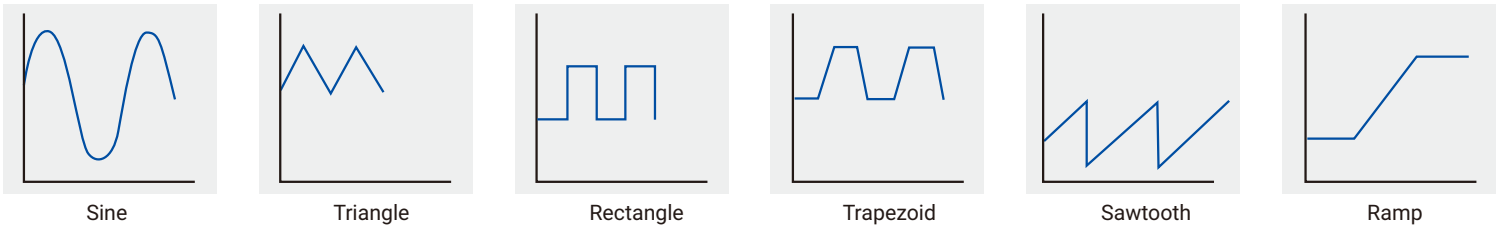
This series power supply provides adjustable rise and fall slew rate setting for voltage and current.



* Actual ramp down time may shift refer to load.

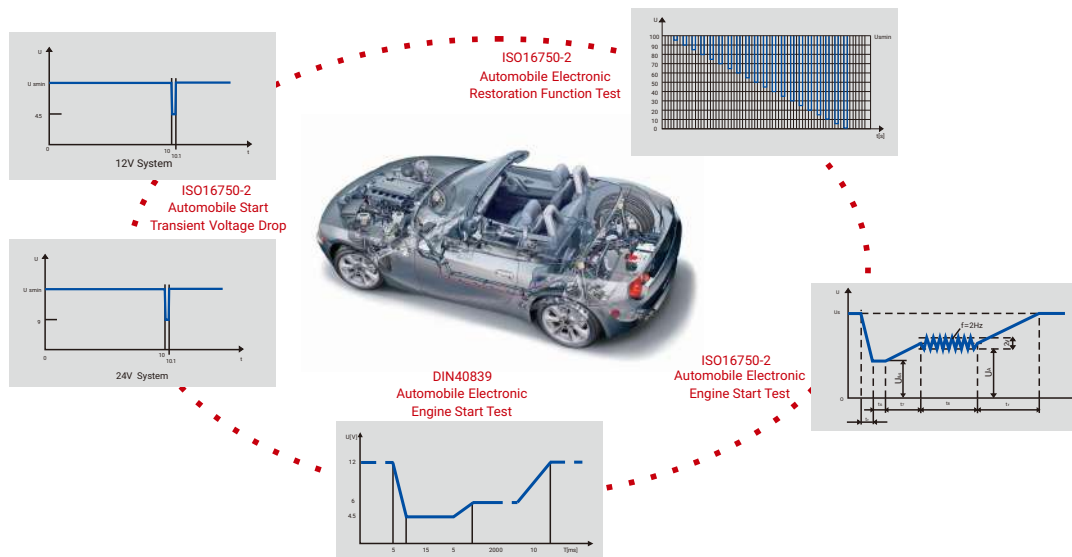
DDS Arbitrary Function Generator

This series power supply includes a true function generator which can generate typical functions as displayed below, convenient for editing or directly recall. Additional to the standard functions, this arbitrary generator is accessible for the creation and execution of complex sets of functions, which is can be used for testing purposes in development and production.



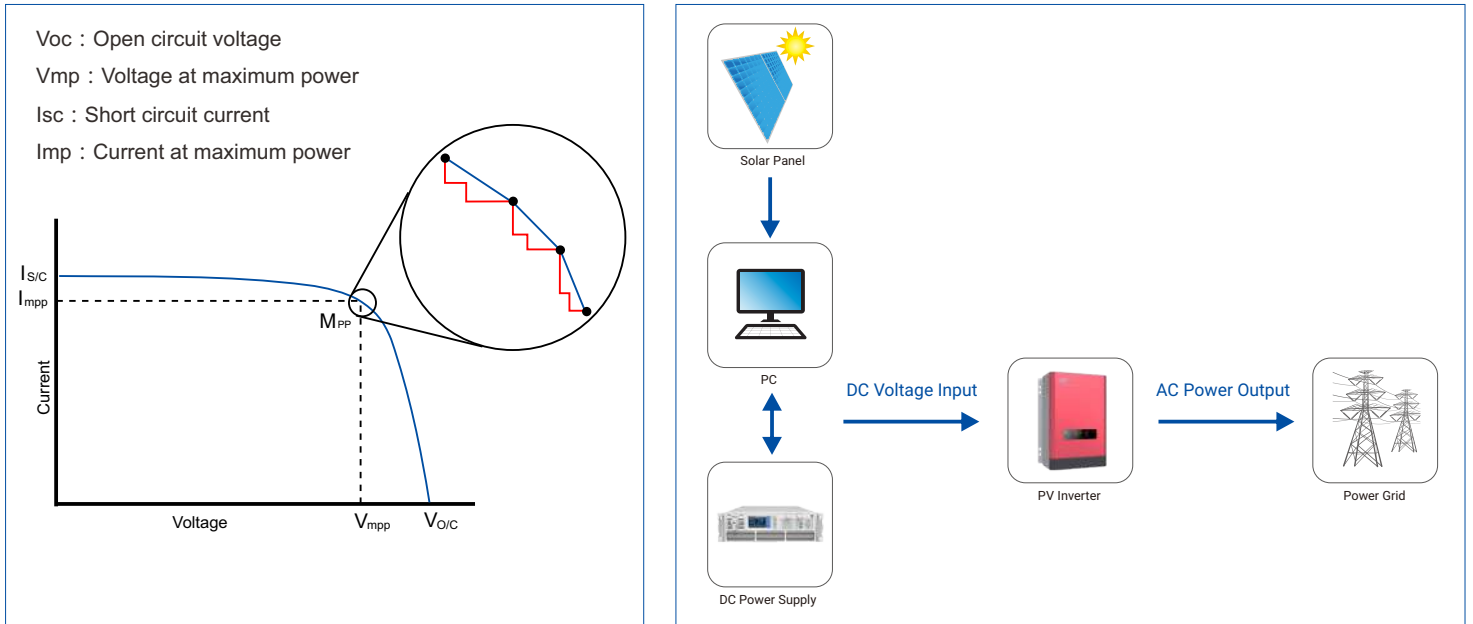
Built-in Standard Automotive Power Network Voltage Curves

This series power supply has built-in German DIN40839 standard voltage curve for the automotive power network and the international standard ISO-16750-2 pulse waveform. The fast rise/fall response time together with arbitrary function generate ability make it can truly simulate the influence on the performance of automotive electronic equipment under different test conditions, is the preferred power testing instrument in the automotive electronics industry.



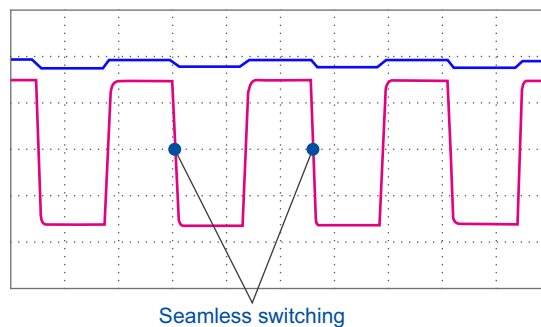
Solar Panel I-V Curve Simulation Function

The power supply provides a unique feature to simulate the output characteristics of a solar array includes Curve Mode, User-defined Mode and SAS Mode. With Curve mode, only need to set four parameters to simulate the solar array I-V curve. With User-defined mode, user can shape an I-V curve by entering up to 4096 points to simulate dynamic cloud cover effect which is useful for MPPT performance evaluation on PV inverter device. With built-in SAS mode, user can set the parameters to simulate I-V curve characteristic output and generate reports.



Continuous Source & Sink Function (optional)

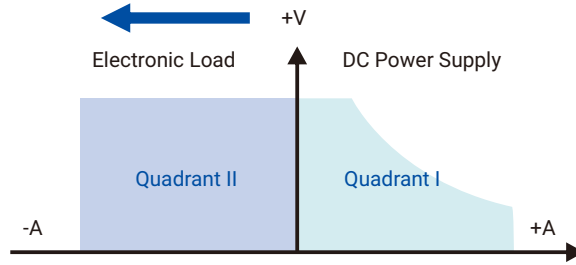
Additionally to the Source mode, this series power supply is equipped with electronic load, also called Sink mode, to absorb power, that enables it work as a two-quadrant power supply. The switchover between these two operating modes occurs without interruption and time loss, thus avoiding overshoot of voltage or current. As a power supply, CV, CC, CP modes are available. As an electronic load, CV, CC, CP and CR mode are available. Thus making it suitable for inductive load and capacitive load testing.



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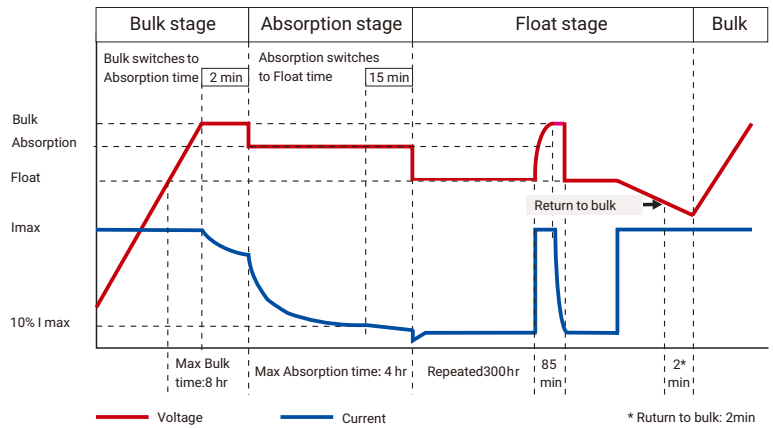
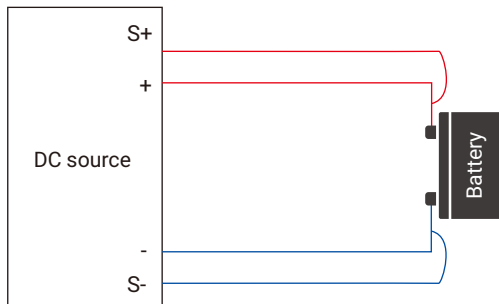
With APM DC E-load To Expand Loading Capability

If a large fast current sinking capability is required, the user can choose APM programmable electric DC loads as well. A power supply can connect and control three DC loads at the same time through CAN communication to realize a rapid response system. Meeting demanding requirements of high power discharging test.



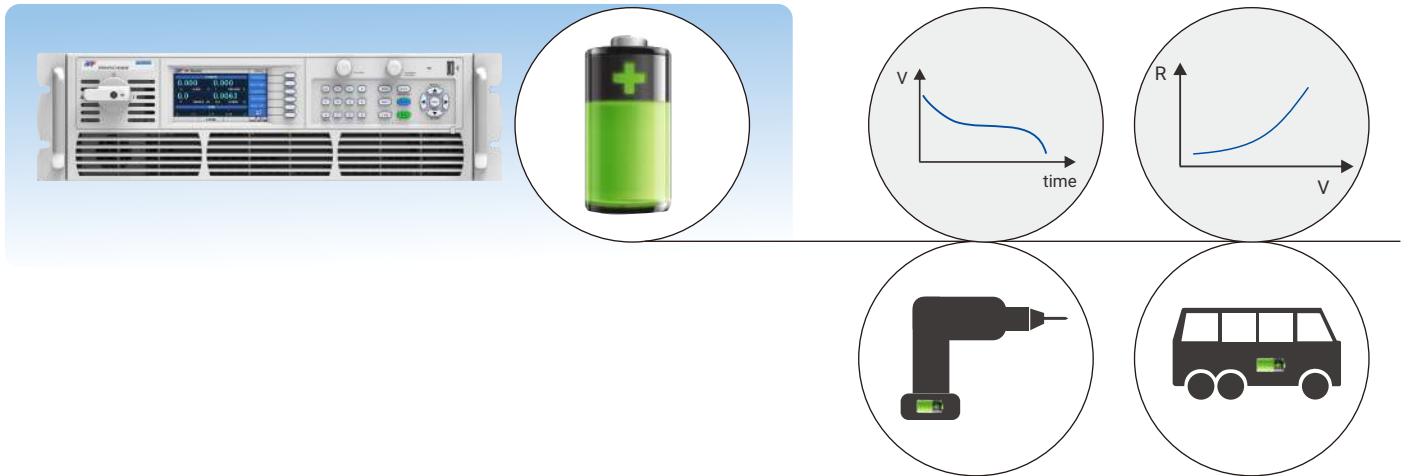
Smart 3-stage Charging Algorithm Simulation

This series power supply adopts 3-stage charging algorithm, built-in charging curves which is suitable for the commonly known types of batteries on the market. Users can directly recall the default curves or change the switching conditions at different charging stage according to the test requirement. Through the internal design, it improved and optimized hardware improvements, the current passing from the battery to power supply will be less than 10mA at any battery voltage when turn off the power supply. Thus avoid battery capacity loss, even when there is no anti reverse irrigation equipment.



Battery Simulator Function

This series power supply built-in typical battery internal resistance curves and discharging curves can easily simulate battery behavior in real-case.



List/Program/Step Mode Programming

This series power supply provides List/Program/Step modes for output waveform programming. Users can edit the voltage/current value & the time of each step in advance and provide the power supply with a trigger signal. Then the preset sequences / waveform will be executed automatically according to the defined files. Sequence mode supports link between multiple files, the user can set the repeat times of each file and the total repeat times of the complete sequence file.

TTL/Analog Control and Monitoring

This series power supply provides TTL/Analog control and monitoring function, in this way the unit can be controlled and monitored easily by external instruments. The user can define the active level according to the actual requirement by themselves. The reserved port also can be used for the secondary development in the future.

SPS-M/A Series DC Power Supply System

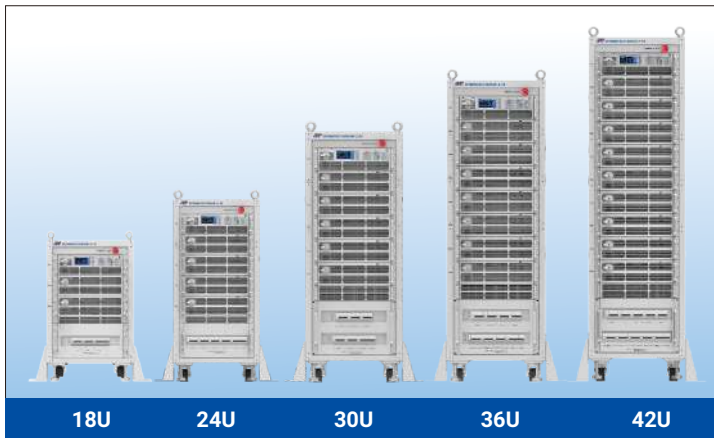
SPS-M/A Series DC Power Supply System

The SPS-M/A Series DC Power Supply System supports two series cabinets based on the control mode : SPSM and SPSA. The maximum output voltage and current of a single cabinet is up to 2250V and 3000A respectively. Output power of a single cabinet is up to 180kW. Support master-slave configuration to increase the output capacity to 576kW.

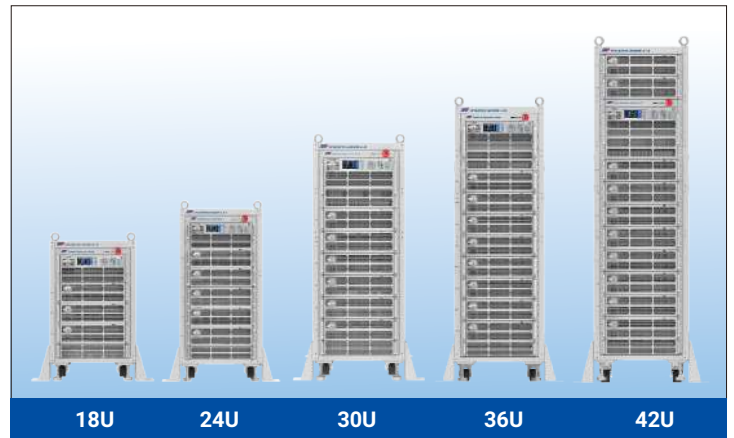
SPSM series cabinets use world famous circuit breaker to control the input of each power module inside. After power on, the specified 3U or 6U height power supply will be configured as a Master to control all of the slave units.

CSP is the Master in **SPSA series cabinets**, which is equipped with a PDU (Power Distribution Unit) and a CSP (Control & Supervisory Panel). The PDU consolidates microprocessor and management of hundreds of thousand VA AC mains in a 5U/8U height chassis. The CSP will display the input and output parameters of this system. The touchpanel provides a complete, intuitive user interface for users to easily manage all configuration, setup and update. Full protection designs prevent potential injury.

Manual Type



Automatic Type



System Configuration

SPSM Series Cabinets

Cabinet Height	18U	24U	30U	36U	42U
Capacity for Power Supplies	9U	15U	18U	24U	30U
Capacity (3U height unit)	3	4~5	4~6	7~8	9~10
Capacity (6U height unit)	1	2	3	4	5
PDU Height	4U	4U	7U	7U	7U
EMS Panel Height	1U	1U	1U	1U	1U
Cabinet Frame	2U	2U	2U	2U	2U
Wiring Height	2U	2U	2U	2U	2U

SPSA Series Cabinets

Cabinet Height	18U	24U	30U	36U	42U
Capacity for Power Supplies	9U	15U	18U	24U	30U
Capacity (3U height unit)	3	4~5	4~6	7~8	9~10
Capacity (6U height unit)	1	2	3	4	5
CSP Height	5U	5U	8U	8U	8U
Cabinet Frame	2U	2U	2U	2U	2U
Wiring Height	2U	2U	2U	2U	2U

Note: PDU or CSP will be equipped based on the connected DC power supplies.

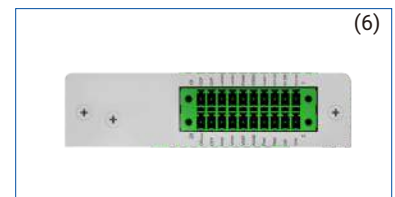
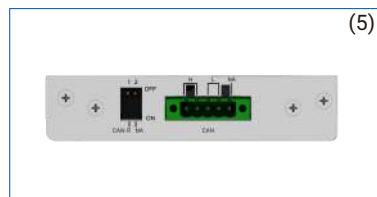
Rated Voltage	Output		Model (Manual Type)	Model (Automatic Type)	Size	Certificates
	Rated Power	Rated Current				
80V	36KW	1200A	SPSM80VDC36000W-3-18	SPSA80VDC36000W-3-18	18U ^①	CE
	54KW	1800A	SPSM80VDC54000W-3-18	SPSA80VDC54000W-3-18	24U ^②	
	72KW	2400A	SPSM80VDC72000W-3-24	SPSA80VDC72000W-3-24		
	90KW	3000A	SPSM80VDC90000W-3-24	SPSA80VDC90000W-3-24	30U ^③	
	108KW	3000A	SPSM80VDC108000W-3-30	SPSA80VDC108000W-3-30		
	126KW	3000A	SPSM80VDC126000W-3-36	SPSA80VDC126000W-3-36	36U ^④	
	144KW	3000A	SPSM80VDC144000W-3-36	SPSA80VDC144000W-3-36		
	162KW	3000A	SPSM80VDC162000W-3-42	SPSA80VDC162000W-3-42	42U ^⑤	
180KW	3000A	SPSM80VDC180000W-3-42	SPSA80VDC180000W-3-42			
165V	24KW	360A	SPSM165VDC24000W-3-18	SPSA165VDC24000W-3-18	18U ^①	CE
	36KW	540A	SPSM165VDC36000W-3-18	SPSA165VDC36000W-3-18	24U ^②	
	48KW	720A	SPSM165VDC48000W-3-24	SPSA165VDC48000W-3-24		
	60KW	900A	SPSM165VDC60000W-3-24	SPSA165VDC60000W-3-24	30U ^③	
	72KW	1080A	SPSM165VDC72000W-3-30	SPSA165VDC72000W-3-30		
	84KW	1260A	SPSM165VDC84000W-3-36	SPSA165VDC84000W-3-36	36U ^④	
	96KW	1440A	SPSM165VDC96000W-3-36	SPSA165VDC96000W-3-36		
	108KW	1620A	SPSM165VDC108000W-3-42	SPSA165VDC108000W-3-42	42U ^⑤	
120KW	1800A	SPSM165VDC120000W-3-42	SPSA165VDC120000W-3-42			
250V	36KW	360A	SPSM250VDC36000W-3-18	SPSA250VDC36000W-3-18	18U ^①	CE
	54KW	540A	SPSM250VDC54000W-3-18	SPSA250VDC54000W-3-18	24U ^②	
	72KW	720A	SPSM250VDC72000W-3-24	SPSA250VDC72000W-3-24		
	90KW	900A	SPSM250VDC90000W-3-24	SPSA250VDC90000W-3-24	30U ^③	
	108KW	1080A	SPSM250VDC108000W-3-30	SPSA250VDC108000W-3-30		
	126KW	1260A	SPSM250VDC126000W-3-36	SPSA250VDC126000W-3-36	36U ^④	
	144KW	1440A	SPSM250VDC144000W-3-36	SPSA250VDC144000W-3-36		
	162KW	1620A	SPSM250VDC162000W-3-42	SPSA250VDC162000W-3-42	42U ^⑤	
180KW	1800A	SPSM250VDC180000W-3-42	SPSA250VDC180000W-3-42			
360V	36KW	255A	SPSM360VDC36000W-3-18	SPSA360VDC36000W-3-18	18U ^①	CE
	54KW	382.5A	SPSM360VDC54000W-3-18	SPSA360VDC54000W-3-18	24U ^②	
	72KW	510A	SPSM360VDC72000W-3-24	SPSA360VDC72000W-3-24		
	90KW	637.5A	SPSM360VDC90000W-3-24	SPSA360VDC90000W-3-24	30U ^③	
	108KW	765A	SPSM360VDC108000W-3-30	SPSA360VDC108000W-3-30		
	126KW	892.5A	SPSM360VDC126000W-3-36	SPSA360VDC126000W-3-36	36U ^④	
	144KW	1020A	SPSM360VDC144000W-3-36	SPSA360VDC144000W-3-36		
	162KW	1147.5A	SPSM360VDC162000W-3-42	SPSA360VDC162000W-3-42	42U ^⑤	
180KW	1275A	SPSM360VDC180000W-3-42	SPSA360VDC180000W-3-42			
500V	36KW	192A	SPSM500VDC36000W-3-18	SPSA500VDC36000W-3-18	18U ^①	CE
	54KW	288A	SPSM500VDC54000W-3-18	SPSA500VDC54000W-3-18	24U ^②	
	72KW	384A	SPSM500VDC72000W-3-24	SPSA500VDC72000W-3-24		
	90KW	480A	SPSM500VDC90000W-3-24	SPSA500VDC90000W-3-24	30U ^③	
	108KW	576A	SPSM500VDC108000W-3-30	SPSA500VDC108000W-3-30		
	126KW	672A	SPSM500VDC126000W-3-36	SPSA500VDC126000W-3-36	36U ^④	
	144KW	768A	SPSM500VDC144000W-3-36	SPSA500VDC144000W-3-36		
	162KW	864A	SPSM500VDC162000W-3-42	SPSA500VDC162000W-3-42	42U ^⑤	
180KW	960A	SPSM500VDC180000W-3-42	SPSA500VDC180000W-3-42			

Rated Voltage	Output		Model (Manual Type)	Model (Automatic Type)	Size	Certificates
	Rated Power	Rated Current				
750V	36KW	126A	SPSM750VDC36000W-3-18	SPSA750VDC36000W	18U ^①	CE
	54KW	189A	SPSM750VDC54000W-3-18	SPSA750VDC54000W	24U ^②	
	72KW	252A	SPSM750VDC72000W-3-24	SPSA750VDC72000W		
	90KW	315A	SPSM750VDC90000W-3-24	SPSA750VDC90000W	30U ^③	
	108KW	378A	SPSM750VDC108000W-3-30	SPSA750VDC108000W-3-30		
	126KW	441A	SPSM750VDC126000W-3-36	SPSA750VDC126000W-3-36	36U ^④	
	144KW	504A	SPSM750VDC144000W-3-36	SPSA750VDC144000W-3-36		
	162KW	567A	SPSM750VDC162000W-3-42	SPSA750VDC162000W-3-42	42U ^⑤	
180KW	630A	SPSM750VDC180000W-3-42	SPSA750VDC180000W-3-42			
1000V	24KW	64A	SPSM1000VDC24000W-3-18	SPSA1000VDC24000W-3-18	18U ^①	CE
	36KW	96A	SPSM1000VDC36000W-3-18	SPSA1000VDC36000W-3-18	24U ^②	
	48KW	128A	SPSM1000VDC48000W-3-24	SPSA1000VDC48000W-3-24		
	60KW	160A	SPSM1000VDC60000W-3-24	SPSA1000VDC60000W-3-24	30U ^③	
	72KW	192A	SPSM1000VDC72000W-3-30	SPSA1000VDC72000W-3-30		
	84KW	224A	SPSM1000VDC84000W-3-36	SPSA1000VDC84000W-3-36	36U ^④	
	96KW	256A	SPSM1000VDC96000W-3-36	SPSA1000VDC96000W-3-36		
	108KW	288A	SPSM1000VDC108000W-3-42	SPSA1000VDC108000W-3-42	42U ^⑤	
120KW	320A	SPSM1000VDC120000W-3-42	SPSA1000VDC120000W-3-42			
1500V	36KW	64A	SPSM1500VDC36000W-3-18	SPSA1500VDC36000W-3-18	18U ^①	CE
	54KW	96A	SPSM1500VDC54000W-3-18	SPSA1500VDC54000W-3-18	24U ^②	
	72KW	128A	SPSM1500VDC72000W-3-24	SPSA1500VDC72000W-3-24		
	90KW	160A	SPSM1500VDC90000W-3-24	SPSA1500VDC90000W-3-24	30U ^③	
	108KW	192A	SPSM1500VDC108000W-3-30	SPSA1500VDC108000W-3-30		
	126KW	224A	SPSM1500VDC126000W-3-36	SPSA1500VDC126000W-3-36	36U ^④	
	144KW	256A	SPSM1500VDC144000W-3-36	SPSA1500VDC144000W-3-36		
	162KW	288A	SPSM1500VDC162000W-3-42	SPSA1500VDC162000W-3-42	42U ^⑤	
180KW	320A	SPSM1500VDC180000W-3-42	SPSA1500VDC180000W-3-42			
2250V	36KW	42A	SPSM2250VDC36000W-3-18	SPSA2250VDC36000W-3-18	18U ^①	CE
	54KW	63A	SPSM2250VDC54000W-3-18	SPSA2250VDC54000W-3-18	24U ^②	
	72KW	84A	SPSM2250VDC72000W-3-24	SPSA2250VDC72000W-3-24		
	90KW	105A	SPSM2250VDC90000W-3-24	SPSA2250VDC90000W-3-24	30U ^③	
	108KW	126A	SPSM2250VDC108000W-3-30	SPSA2250VDC108000W-3-30		
	126KW	147A	SPSM2250VDC126000W-3-36	SPSA2250VDC126000W-3-36	36U ^④	
	144KW	168A	SPSM2250VDC144000W-3-36	SPSA2250VDC144000W-3-36		
	162KW	189A	SPSM2250VDC162000W-3-42	SPSA2250VDC162000W-3-42	42U ^⑤	
180KW	210A	SPSM2250VDC180000W-3-42	SPSA2250VDC180000W-3-42			

* This formula is the standard cabinet for SP-3U model. It could extend to 576W via SP-6U model. It is available to select cabinet with different specification according to exact situation. Detail please consults our area manager.

Optional Information

- (1) US standard, input voltage range: 187~305Vac*
- (2) European standard, input voltage range: 340~480Vac*
- (3) Continuous source & sink function*
- (4) GPIB & LAN communication card & cables
- (5) CAN communication card
- (6) TTL/Analog control card



* These options must be specified at the time of order as they are installed at the factory prior to shipment.

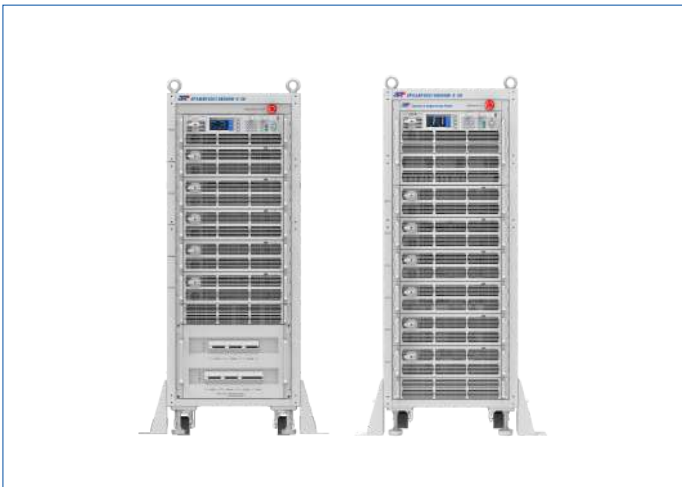
Dimensions & Weight



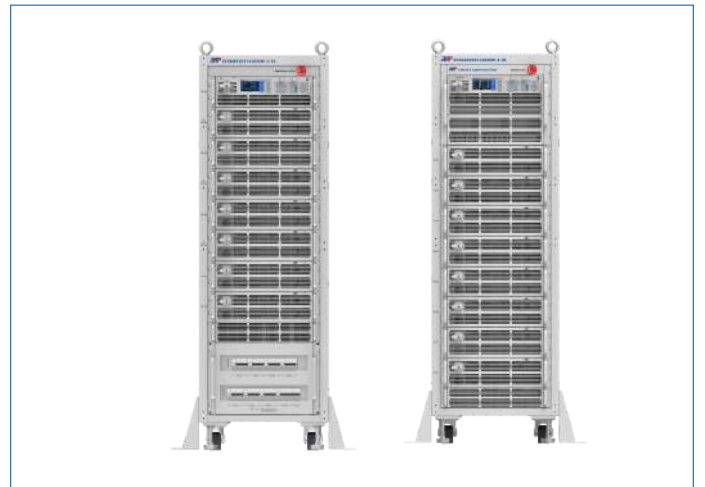
① 560.0x790.0x920.0 mm & 225kg



② 560.0x1056.0x920.0 mm & 350kg



③ 560.0x1324.0x920.0 mm & 416kg



④ 560.0x1590.0x920.0 mm & 535kg



⑤ 560.0x1857.0x920.0 mm & 653kg

Features

- Large color touch screen, rotary knob and keys provide an excellent operational experience.
- 3-phase input voltage meets worldwide power distribution regulation, AC mains 187~305Vac/340~480Vac for optional.
- Constant voltage (CV), constant current (CC) and constant power (CP) operation mode, CC or CV working priority setting.
- Adjustable voltage/current slew rate.
- Smart 3-stage charging algorithm simulation.
- Full protection: OVP, OCP, OPP and OTP protection.
- Equipped with Emergency Stop, physically off all managed DC power supplies at once.
- Back door with protect switch, safe to the operator.
- List/ Step mode programming.
- Standard RS232/RS485/USB interface, optional LAN & GPIB interface, optional CAN interface.
- SCPI compatible, provide web GUI function.

SPSA Series Advantage

- CSP5/CSP8*, connect with 5 units /10 units 3U height DC power supply or 2 units /5 units 6U height DC power supply.
- Built-in power meter, to monitor the AC mains parameters such as V, A, Frequency, Power and PF.
- Support efficiency calculation and electrical quantities recording.
- Built-in Timer, allows to set output running time.
- Easy to enable the output of each power supply from the touch screen, sequence On/Off DC power supplies.
- Display the output parameters of each DC power supply in the same system.
- PDU significantly simplifies the wiring for DC power system.
- User-defined AC input protection parameters such as OVP, UVP, OFP, UFP, OCP and Phase loss.
- Provide web GUI function to monitor & control the CSP via ethernet.

* Even the same model CSP may be configured differently, which is based on the connected DC power supplies.

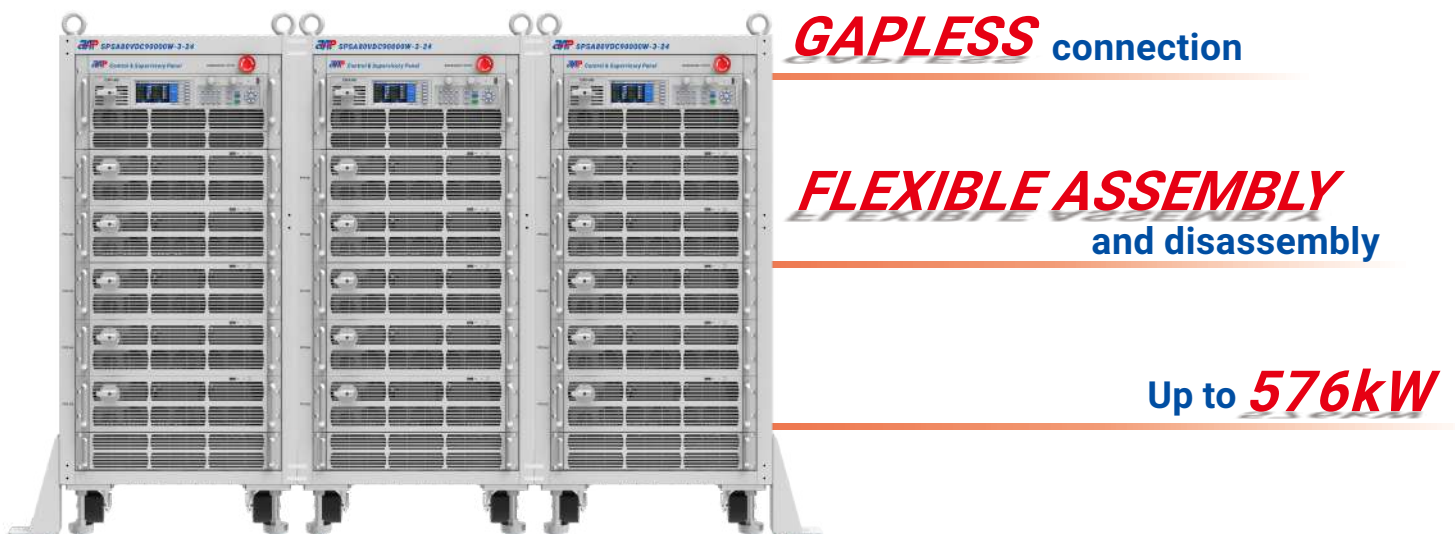
Connecting the cabinet

1. The cabinets can be connected in parallel in order to increase output power.

- Maximum 16 units 3U height same model DC power supplies or 6U height same model DC power supplies can be connected via the bus.
- 16 units each with a power of 18kW are connected together to a 288kW system.
- 16 units each with a power of 36kW are connected together to a 576kW system.

2. Different height cabinets can be connected in parallel.

- Use parallel bars to simplify the connection between multiple rack cabinets.
- Realized the gapless connection between multiple rack cabinets.



CSP Panel Introduction

Front Panel Description

The image shows the front panel of the CSP8-M10 power supply system. It features a central color touch screen displaying system status. To the left is a large emergency stop button. To the right is a control panel with a rotary knob, numeric keypad, and function keys. A USB port is located on the far right. The panel is labeled 'Control & Supervisory Panel' and 'EMERGENCY STOP'.

- 1 Emergency Stop, physically off all managed DC power supplies at once.
- 2 CSP power switch
- 3 Color touch screen
- 4 Selection soft keys
- 5 Voltage/Current & Power knob
- 6 Numeric and functional keys
- 7 USB port, for data transfers and firmware upgrading
- 8 Stylus

Rear Panel Description

The image shows the rear panel of the CSP8-M10 power supply system. It features a large terminal block with 10 modules (M1-M10) and 9 lines (L1-L9). The terminal block is labeled 'OUTPUT VOLT: 3P 208VAC 60Hz' and '380VAC 50Hz'. The input terminals are labeled 'INPUT VOLT: 3P 380VAC 60Hz' and '380VAC 50Hz'. The output terminals are labeled 'OUTPUT VOLT: 3P 208VAC 60Hz' and '380VAC 50Hz'. A blue fan is visible at the bottom left. The panel is labeled 'CSP8-M10' and 'CSP OUTPUT CONNECTION INFO.'.

- 1 RS485/RS232/USB communication interface (standard), LAN&GPIB communication interface (optional), CAN communication interface (optional)*
- 2 External TTL/Analog control interface.
- 3 System Bus, for master/slave system data transmission
- 4 Termination resistor CAN-R
- 5 PDU AC output terminals to each DC power supply
- 6 FAN & EMS AC input terminals
- 7 PDU AC input terminals
- 8 Protective earth (ground) terminals

* These interface option installs in place of the standard RS485/RS232/USB interfaces, occupies the same physical slot.

Displays of CSP

CSP provides below menus which allows user to control and monitor the power supply system via front panel.

System

Master-slave system configuration page.

DC Source		System
Breaker State		Save
M1 Breaker <input checked="" type="checkbox"/>	M6 Breaker <input type="checkbox"/>	Type Enable
M2 Breaker <input checked="" type="checkbox"/>	M7 Breaker <input type="checkbox"/>	Calibration
M3 Breaker <input checked="" type="checkbox"/>	M8 Breaker <input type="checkbox"/>	
M4 Breaker <input type="checkbox"/>	M9 Breaker <input type="checkbox"/>	
M5 Breaker <input type="checkbox"/>	M10 Breaker <input type="checkbox"/>	
Manual Connection <input checked="" type="checkbox"/>	Auto Connection <input type="checkbox"/>	
LOCAL		13:27 2020/06/28

Submodule

DC output parameters reading page.

DC Source		PDU
Submodule		Submodule
Σ 80.000 V	Σ 1200.00 A	PWR Breaker
M1 80.000 V 400.00 A	M6 0.000 V 0.000 A	Input info.
M2 80.000 V 400.00 A	M7 0.000 V 0.000 A	System
M3 80.000 V 400.00 A	M8 0.000 V 0.000 A	OP Setting
M4 0.000 V 0.000 A	M9 0.000 V 0.000 A	
M5 0.000 V 0.000 A	M10 0.000 V 0.000 A	
LOCAL		13:27 2020/06/28

Input Info.

AC input parameters measurement page.

DC Source		Input Info.
Voltage		
A: 384.73 V	B: 385.06 V	C: 384.63 V
Current		
A: 3.10 A	B: 2.89 A	C: 3.25 A
F 49.97 HZ	P 1115 W	PF 0.57
LOCAL		13:29 2020/06/28

OP Value

AC input protection parameters setting page.

DC Source		OP Value
OP Value		OP Enable
A OVP 440.00 V	A UVP 228.80 V	
B OVP 440.00 V	B UVP 228.80 V	
C OVP 440.00 V	C UVP 228.80 V	
A OCP 165.00 A	C OCP 165.00 A	
B OCP 165.00 A	OFF UFP 56.40 Hz	
LOCAL		13:28 2020/06/28

Contents

SP80VDC6000W -----	19	SP750VDC6000W -----	35
SP80VDC12000W -----	19	SP750VDC12000W -----	35
SP80VDC18000W -----	19	SP750VDC18000W -----	35
SP80VDC24000W -----	21	SP750VDC24000W -----	37
SP80VDC30000W -----	21	SP750VDC30000W -----	37
SP80VDC36000W -----	21	SP750VDC36000W -----	37
SP165VDC12000W -----	23	SP1000VDC12000W -----	39
SP165VDC24000W -----	23	SP1000VDC24000W -----	39
SP165VDC36000W -----	23	SP1000VDC36000W -----	39
SP250VDC18000W -----	25	SP1500VDC12000W -----	41
 		SP1500VDC18000W -----	41
SP360VDC6000W -----	27	SP1500VDC24000W -----	43
SP360VDC12000W -----	27	SP1500VDC36000W -----	43
SP360VDC18000W -----	27		
SP360VDC24000W -----	29	SP2250VDC18000W -----	45
SP360VDC30000W -----	29		
SP360VDC36000W -----	29		
SP500VDC6000W -----	31		
SP500VDC12000W -----	31		
SP500VDC18000W -----	31		
SP500VDC24000W -----	33		
SP500VDC30000W -----	33		
SP500VDC36000W -----	33		

Selection List:

Model	Voltage	Current	Power	Corresponding page
SP80VDC6000W	80V	200A	6000W	P20
SP80VDC12000W	80V	400A	12000W	P20
SP80VDC18000W	80V	600A	18000W	P20
SP80VDC24000W	80V	800A	24000W	P22
SP80VDC30000W	80V	1000A	30000W	P22
SP80VDC36000W	80V	1200A	36000W	P22
SP165VDC12000W	165V	180A	12000W	P24
SP165VDC24000W	165V	360A	24000W	P24
SP165VDC36000W	165V	540A	36000W	P24
SP250VDC18000W	250V	180A	18000W	P26
SP360VDC6000W	360V	42.5A	6000W	P28
SP360VDC12000W	360V	85A	12000W	P28
SP360VDC18000W	360V	127.5A	18000W	P28
SP360VDC24000W	360V	170A	24000W	P30
SP360VDC30000W	360V	212.5A	30000W	P30
SP360VDC36000W	360V	255A	36000W	P30
SP500VDC6000W	500V	32A	6000W	P32
SP500VDC12000W	500V	64A	12000W	P32
SP500VDC18000W	500V	96A	18000W	P32
SP500VDC24000W	500V	128A	24000W	P34
SP500VDC30000W	500V	160A	30000W	P34
SP500VDC36000W	500V	192A	36000W	P34
SP750VDC6000W	750V	21A	6000W	P36
SP750VDC12000W	750V	42A	12000W	P36
SP750VDC18000W	750V	63A	18000W	P36
SP750VDC24000W	750V	84A	24000W	P38
SP750VDC30000W	750V	105A	30000W	P38
SP750VDC36000W	750V	126A	36000W	P38
SP1000VDC12000W	1000V	32A	12000W	P40
SP1000VDC24000W	1000V	64A	24000W	P40
SP1000VDC36000W	1000V	96A	36000W	P40
SP1500VDC12000W	1500V	21A	12000W	P42
SP1500VDC18000W	1500V	32A	18000W	P42
SP1500VDC24000W	1500V	42A	24000W	P44
SP1500VDC36000W	1500V	63A	36000W	P44
SP2250VDC18000W	2250V	21A	18000W	P46

SP-3U/6U Series Wide-range High-power Programmable DC Power Supply

MODEL	SP80VDC6000W	SP80VDC12000W	SP80VDC18000W	
Input				
Voltage ^[1]	187~305VAC 340~480VAC			
Current ^[1]	3P208 L3-0, L1, L2-38A 3P400 L3-0, L1,L2-19A	3P208 L1-60A, L2,L3-38A 3P400 L1-30A, L2,L3-19A	3P208 L1,L2,L3-60A 3P400 L1,L2,L3-30A	
Frequency	45-65Hz			
Connection	2ph, PE	3ph, PE	3ph, PE	
Fuse (Internal) ^[1]	T50A*2pcs T30A*2pcs			
Power Factor	>0.99			
Input Power	3P208 7.1kVAmax, 3P400 6.9kVAmax	3P208 14.2kVAmax, 3P400 13.8kVAmax	3P208 21.3kVAmax, 3P400 20.7kVAmax	
Efficiency ^[1]	3P208 ~90.5%@80V, 3P208 ~86.5%@200A 3P400 ~92.2%@80V, 3P400 ~87.8%@200A	3P208 ~90.5%@80V, 3P208 ~86.5%@400A 3P400 ~92.2%@80V, 3P400 ~87.8%@400A	3P208 ~90.5%@80V, 3P208 ~86.5%@600A 3P400 ~92.2%@80V, 3P400 ~87.8%@600A	
Output				
Voltage Range	0~80V			
Current Range ^[2]	0~200A	0~400A	0~600A	
Power Range	0~6000W	0~12000W	0~18000W	
Max. Setup Range	Voltage	0~84V(0~105%)		
	Current	0~204.75A(0~102%)	0~409.5A(0~102%)	0~614.25A(0~102%)
	Power	0~6300W(0~105%)		
	Internal Resistance	0~12Ω	0~6Ω	0~4Ω
Accuracy	Voltage	<0.1% Umax(80mV)		
	Current	<0.2% Imax(400mA)	<0.2% Imax(800mA)	<0.2% Imax(1200mA)
	Power	<0.5%+30W	<0.5%+60W	<0.5%+90W
	Internal Resistance	R<2% Rmax, I<0.3% Imax		
Line Regulation	Voltage	<0.02% Umax(16mV)		
	Current	<0.05% Imax(100mA)	<0.05% Imax(200mA)	<0.05% Imax(300mA)
	Power	<0.05% Pmax		
Load Regulation ^[3]	Voltage	<0.05%Umax(40mV) @Rated Voltage, <0.1%Umax(80mV) @Rated Current		
	Current	<0.15% Imax(300mA)	<0.15% Imax(600mA)	<0.15% Imax(900mA)
	Power	<0.75% Pmax		
Rise Time	Voltage <15ms (No Load) <55ms (Full Load)			
Drop Time	Voltage <850ms (No Load) <15ms (Full Load)			
Transient Response Time ^[4]	Voltage ≤1.5ms/0.8V			
Display Resolution	Voltage	0.001V		
	Current	0.001A		
	Power	0.1W		
	Internal Resistance	0.0001Ω		
Measurement Accuracy	Voltage	<0.1% Umax(80mV)		
	Current	<0.2% Imax(400mA)	<0.2% Imax(800mA)	<0.2% Imax(1200mA)
	Power	<0.5% Pmax		
	Internal Resistance	<0.4% Rmax		
Ripple ^[5]	Voltage	<180mVpp, <15mVrms	<288mVpp, <23mVrms	<320mVpp, <25mVrms
	Current	<100mArms	<200mArms	<300mArms
Remote Compensation	Voltage 5%Umax(4V)			
Sink Function				
Input Voltage	0~80V			
Input Current	0~100A	0~200A	0~300A	
Input Power	0~335W	0~660W	0~1000W	
Min. Operating Voltage	3V@100A	3V@200A	3V@300A	
CC Resolution	10mA	20mA	30mA	

SP-3U/6U Series Wide-range High-power Programmable DC Power Supply

MODEL	SP80VDC6000W	SP80VDC12000W	SP80VDC18000W
CC Accuracy	<0.2% I _{max} (200mA)	<0.2% I _{max} (400mA)	<0.2% I _{max} (600mA)
CV Resolution	<4mV		
CV Accuracy	<0.1% U _{max} (80mV)		
CP Resolution	0.5W	1W	1.5W
CP Accuracy	<0.5% P _{max} (1675mW)	<0.5% P _{max} (3300mW)	<0.5% P _{max} (5000mW)
Slew Rate	0.01~2.5A/us		
Dynamic Mode	20ms~50s		
General			
Graphic Display	4.3" Color touch LCD		
Operation Key Feature	Soft keys, Numeric keys, Rotary knob, USB port for transfer and upgrading firmware		
Rack Mount Handles	Yes		
FAN	Temperature control		
Protection	OCP, OVP, OPP, OTP, HARD FAIL		
Interface	RS232/RS485/USB(Standard), GPIB/LAN(Optional), CAN(Optional)		
Command Response Time	<3ms		
Analog Interface(Optional)			
Set Value Inputs	Analog input 0~5V/0~10V or 0~5kΩ/0~10kΩ to set 0~105% voltage, current and power		
Actual Value Output	Analog output 0~5V/0~10V to monitor the voltage and current.		
Accuracy U/I/P/R	<0.2% F.S		
Actual Output U/I	<0.2%		
Control Signals	DC ON/OFF, External control Enable/Disable		
Status Signals	CV, OVP, OT		
Sampling Rate of Input & Output	45Hz		
Galvanic Isolation to the Device	2121VDC		
Master/Slave Control			
Series Output	MAX 2 units		
Parallel Output	MAX 16 units		
Environmental			
Operating Temperature ^[1]	0~40°C		
Storage Temperature	-20~70°C		
Temperature Coefficient	100ppm/°C(voltage), 150ppm/°C(current)		
Relative Humidity	<95%RH(non-condensing)@35°C, <80%RH(non-condensing)@40°C		
Altitude	<2000m@40°C		
Fan Noise	45dB Idle; 71dB Max;	45dB Idle; 73dB Max;	45dB Idle; 75dB Max;
Mechanical			
Dimensions(WxHxD)	423.0x133.0x718.0 mm		
Package Dimensions(WxHxD)	665.0x347.0x1009.0 mm		
Unit Weight	27kg	38kg	50kg
Shipping Weight	37kg	48kg	60kg
Miscellaneous			
Over Voltage Category	II		
Protection Class	I		
Pollution Degree	2		
Insulation	AC input <->DC output, 4242VDC, AC input <-> PE, 2818VDC		

[1] For different input voltage standard option must be specified at the time of order as they are installed at the factory prior to shipment.

[2] It is recommended that the output current is derated by 10% when the operation environment is higher than 30°C.

[3] Load transient from 0% to 100% of rated output.

[4] Test value at 100% voltage and 100% power.

[5] V_{rms} @ 300kHz, V_{pp} @ 20MHz, A_{rms} @ 300kHz.

SP-3U/6U Series Wide-range High-power Programmable DC Power Supply

MODEL	SP80VDC24000W	SP80VDC30000W	SP80VDC36000W	
Input				
Voltage ^[1]	196~305VAC 340~480VAC			
Current ^[1]	3P208 L3-60A , L1, L2-103A 3P400 L3-30A, L1,L2-49A	3P208 L1-125A,L2,L3-103A 3P400 L1-63A,L2,L3-49A	3P208 L1,L2,L3-125A 3P400 L1,L2,L3-63A	
Frequency	45-65Hz			
Connection	3ph, PE			
Fuse (Internal) ^[1]	T50A*2pcs T30A*2pcs			
Power Factor	>0.99			
Input Power	3P208 28.4kVAmax, 3P400 27.6kVAmax	3P208 35.5kVAmax, 3P400 34.5kVAmax	3P208 42.6kVAmax, 3P400 41.4kVAmax	
Efficiency ^[1]	3P208 ~90.5%@80V, 3P208 ~86.5%@800A 3P400 ~92.2%@80V, 3P400 ~87.8%@800A	3P208 ~90.5%@80V, 3P208 ~86.5%@1000A 3P400 ~92.2%@80V, 3P400 ~87.8%@1000A	3P208 ~90.5%@80V, 3P208 ~86.5%@1200A 3P400 ~92.2%@80V, 3P400 ~87.8%@1200A	
Output				
Voltage Range	0~80V			
Current Range ^[2]	0~800A	0~1000A	0~1200A	
Power Range	0~24000W	0~30000W	0~36000W	
Max. Setup Range	Voltage	0~84V(0~105%)		
	Current	0~819A(0~102%)	0~1023.75A(0~102%)	0~1228.5A(0~102%)
	Power	0~26400W(0~105%)		
	Internal Resistance	0~3.0Ω	0~2.4Ω	0~2.0Ω
Accuracy	Voltage	<0.1% Umax(80mV)		
	Current	<0.2% Imax(1600mA)	<0.2% Imax(2000mA)	<0.2% Imax(2400mA)
	Power	<1%+120W		
	Internal Resistance	R<2% Rmax, I<0.3% Imax		
Line Regulation	Voltage	<0.02% Umax(16mV)		
	Current	<0.05% Imax(400mA)	<0.05% Imax(500mA)	<0.05% Imax(600mA)
	Power	<0.05% Pmax		
Load Regulation ^[3]	Voltage	<0.05%Umax(40mV) @Rated Voltage, <0.1%Umax(80mV) @Rated Current		
	Current	<0.15% Imax(1200mA)	<0.15% Imax(1500mA)	<0.15% Imax(1800mA)
	Power	<0.75% Pmax		
Rise Time	Voltage <15ms (No Load) <30ms (Full Load)			
Drop Time	Voltage <850ms (No Load) <15ms (Full Load)			
Transient Response Time ^[4]	Voltage ≤1.5ms/0.8V			
Display Resolution	Voltage	0.001V		
	Current	0.001A	0.01A	0.01A
	Power	0.1W		
	Internal Resistance	0.0001Ω		
Measurement Accuracy	Voltage	<0.1% Umax(80mV)		
	Current	<0.2% Imax(1600mA)	<0.2% Imax(2000mA)	<0.2% Imax(2400mA)
	Power	<0.5% Pmax		
	Internal Resistance	<0.4% Rmax		
Ripple ^[5]	Voltage	<320mVpp, <25mVrms		
	Current	<360mArms	<450mArms	<540mArms
Remote Compensation	Voltage 5% Umax(4V)			
Sink Function				
Input Voltage	0~80V			
Input Current	0~400A	0~500A	0~600A	
Input Power	0~1300W	0~1600W	0~2000W	
Min. Operating Voltage	3V@400A	3V@500A	3V@600A	
CC Resolution	40mA	50mA	60mA	

SP-3U/6U Series Wide-range High-power Programmable DC Power Supply

MODEL	SP80VDC24000W	SP80VDC30000W	SP80VDC36000W
CC Accuracy	<0.2% I _{max} (800mA)	<0.2% I _{max} (1000mA)	<0.2% I _{max} (1200mA)
CV Resolution	<4mV		
CV Accuracy	<0.1% U _{max} (80mV)		
CP Resolution	2W	2.5W	3W
CP Accuracy	<0.5% P _{max} (6500mW)	<0.5% P _{max} (8000mW)	<0.5% P _{max} (10000mW)
Slew Rate	0.01~2.5A/us		
Dynamic Mode	20ms~50s		
General			
Graphic Display	4.3" Color touch LCD		
Operation Key Feature	Soft keys, Numeric keys, Rotary knob, USB port for transfer and upgrading firmware		
Rack Mount Handles	Yes		
FAN	Temperature control		
Protection	OCP, OVP, OPP, OTP, HARD FAIL		
Interface	RS232/RS485/USB(Standard), GPIB/LAN(Optional), CAN(Optional)		
Command Response Time	<3ms		
Analog Interface(Optional)			
Set Value Inputs	Analog input 0~5V/0~10V or 0~5kΩ/0~10kΩ to set 0~105% voltage, current and power		
Actual Value Output	Analog output 0~5V/0~10V to monitor the voltage and current.		
Accuracy U/I/P/R	<0.2% F.S		
Actual Output U/I	<0.2%		
Control Signals	DC ON/OFF, External control Enable/Disable		
Status Signals	CV, OVP, OT		
Sampling Rate of Input & Output	45Hz		
Galvanic Isolation to the Device	2121VDC		
Master/Slave Control			
Series Output	MAX 2 units		
Parallel Output	MAX 16 units		
Environmental			
Operating Temperature ^[1]	0~40°C		
Storage Temperature	-20~70°C		
Temperature Coefficient	100ppm/°C(voltage), 150ppm/°C(current)		
Relative Humidity	<95%RH(non-condensing)@35°C, <80%RH(non-condensing)@40°C		
Altitude	<2000m@40°C		
Fan Noise	48dB Idle; 77dB Max;	48dB Idle; 80dB Max;	48dB Idle; 82dB Max;
Mechanical			
Dimensions(WxHxD)	423.0x265.0x745.0 mm		
Package Dimensions(WxHxD)	549.0x531.0x946.0 mm		
Unit Weight	75kg	86kg	97kg
Shipping Weight	101kg	112kg	123kg
Miscellaneous			
Over Voltage Category	II		
Protection Class	I		
Pollution Degree	2		
Insulation	AC input <->DC output, 4242VDC, AC input <-> PE, 2818VDC		

[1] For different input voltage standard option must be specified at the time of order as they are installed at the factory prior to shipment.

[2] It is recommended that the output current is derated by 10% when the operation environment is higher than 30°C.

[3] Load transient from 0% to 100% of rated output.

[4] Test value at 100% voltage and 100% power.

[5] V_{rms} @ 300kHz, V_{pp} @ 20MHz, A_{rms} @ 300kHz.

SP-3U/6U Series Wide-range High-power Programmable DC Power Supply

MODEL	SP165VDC12000W	SP165VDC24000W	SP165VDC36000W	
Input				
Voltage ^[1]	187~305VAC 340~480VAC	196~305VAC	196~305VAC	
Current ^[1]	3P208 L1-60A, L2,L3-38A 3P400 L1-30A, L2,L3-19A	3P208 L3-60A,L1,L2-103A 3P400 L3-30A,L1,L2-49A	3P208 L1,L2,L3-125A 3P400 L1,L2,L3-63A	
Frequency	45-65Hz			
Connection	3ph, PE			
Fuse (Internal) ^[1]	T50A*2pcs T30A*2pcs			
Power Factor	>0.99			
Input Power	3P208 14.4kVAmax, 3P400 14.0kVAmax	3P208 28.8kVAmax, 3P400 28.0kVAmax	3P208 42.6kVAmax, 3P400 41.4kVAmax	
Efficiency ^[1]	3P208 ~90.5%@165V, 3P208 ~85%@180A 3P400 ~91.5%@165V, 3P400 ~85.5%@180A	3P208 ~90.5%@165V, 3P208 ~85%@360A 3P400 ~91.5%@165V, 3P400 ~85.5%@360A	3P208 ~90.5%@165V, 3P208 ~85%@540A 3P400 ~91.5%@165V, 3P400 ~85.5%@540A	
Output				
Voltage Range	0~165V			
Current Range ^[2]	0~180A	0~360A	0~540A	
Power Range	0~12000W	0~24000W	0~36000W	
Max. Setup Range	Voltage	0~173.25V(0~105%)		
	Current	0~189A(0~105%)	0~378A(0~105%)	0~567A(0~105%)
	Power	0~12600W(0~105%)		
	Internal Resistance	0~27.5Ω	0~13.75Ω	0~9.167Ω
Accuracy	Voltage	<0.1% Umax(165mV)		
	Current	<0.2% I _{max} (360mA)	<0.2% I _{max} (720mA)	<0.2% I _{max} (1080mA)
	Power	<0.5%+60W	<1%+120W	<1%+180W
	Internal Resistance	R<2% R _{max} , I<0.3% I _{max}		
Line Regulation	Voltage	<0.02% Umax(33mV)		
	Current	<0.05% I _{max} (90mA)	<0.05% I _{max} (180mA)	<0.05% I _{max} (270mA)
	Power	<0.05% P _{max}		
Load Regulation ^[3]	Voltage	<0.05% Umax(82.5mV) @Rated Voltage, <0.1% Umax(165mV) @Rated Current		
	Current	<0.15% I _{max} (270mA)	<0.15% I _{max} (540mA)	<0.15% I _{max} (810mA)
	Power	<0.75% P _{max}		
Rise Time	Voltage	<15ms (No Load) <30ms (Full Load)		
Drop Time	Voltage	<900ms (No Load) <15ms (Full Load)		
Transient Response Time ^[4]	Voltage	≤1.5ms/1.65V		
Display Resolution	Voltage	0.001V		
	Current	0.001A		
	Power	0.1W		
	Internal Resistance	0.0001Ω		
Measurement Accuracy	Voltage	<0.1% Umax(165mV)		
	Current	<0.2% I _{max} (360mA)	<0.2% I _{max} (720mA)	<0.2% I _{max} (1080mA)
	Power	<0.5% P _{max}		
	Internal Resistance	<0.4% R _{max}		
Ripple ^[5]	Voltage	<540mV _{pp} , <50mV _{rms}		
	Current	<100mArms	<200mArms	<300mArms
Remote Compensation	Voltage	2%Umax(3.3V)		
General				
Graphic Display	4.3" Color touch LCD			
Operation Key Feature	Soft keys, Numeric keys, Rotary knob, USB port for transfer and upgrading firmware			
Rack Mount Handles	Yes			
FAN	Temperature control			
Protection	OCP, OVP, OPP, OTP, HARD FAIL			

SP-3U/6U Series Wide-range High-power Programmable DC Power Supply

MODEL	SP165VDC12000W	SP165VDC24000W	SP165VDC36000W
Interface	RS232/RS485/USB(Standard), GPIB/LAN(Optional), CAN(Optional)		
Command Response Time	<3ms		
Analog Interface(Optional)			
Set Value Inputs	Analog input 0~5V/0~10V or 0~5kΩ/0~10kΩ to set 0~105% voltage, current and power		
Actual Value Output	Analog output 0~5V/0~10V to monitor the voltage and current.		
Accuracy U/I/P/R	<0.2% F.S		
Actual Output U/I	<0.2%		
Control Signals	DC ON/OFF, External control Enable/Disable		
Status Signals	CV, OVP, OT		
Sampling Rate of Input & Output	45Hz		
Galvanic Isolation to the Device	2121VDC		
Master/Slave Control			
Series Output	MAX 2 units		
Parallel Output	MAX 16 units		
Environmental			
Operating Temperature ^[2]	0~40°C		
Storage Temperature	-20~70°C		
Temperature Coefficient	100ppm/°C(voltage), 150ppm/°C(current)		
Relative Humidity	<95%RH(non-condensing)@35°C, <80%RH(non-condensing)@40°C		
Altitude	<2000m@40°C		
Fan Noise	45dB Idle; 73dB Max;	48dB Idle; 80dB Max;	48dB Idle; 82dB Max;
Mechanical			
Dimensions(WxHxD)	423.0x133.0x718.0 mm	423.0x265.0x745.0 mm	423.0x265.0x745.0 mm
Package Dimensions(WxHxD)	665.0x347.0x1009.0 mm	549.0x531.0x946.0 mm	549.0x531.0x946.0 mm
Unit Weight	38kg	75kg	97kg
Shipping Weight	48kg	101kg	123kg
Miscellaneous			
Over Voltage Category	II		
Protection Class	I		
Pollution Degree	2		
Insulation	AC input <->DC output, 4242VDC, AC input <-> PE, 2818VDC		

[1] For different input voltage standard option must be specified at the time of order as they are installed at the factory prior to shipment.

[2] It is recommended that the output current is derated by 10% when the operation environment is higher than 30°C.

[3] Load transient from 0% to 100% of rated output.

[4] Test value at 100% voltage and 100% power.

[5] Vrms @ 300kHz, Vpp @ 20MHz, Arms @ 300kHz.

SP-3U/6U Series Wide-range High-power Programmable DC Power Supply

MODEL		SP250VDC18000W
Input		
Voltage ^[1]		187~305VAC
		340~480VAC
Current ^[1]		3P208 L1,L2,L3-60A
		3P400 L1,L2,L3-30A
Frequency		45-65Hz
Connection		3ph, PE
Fuse (Internal) ^[1]		T50A*2pcs
		T30A*2pcs
Power Factor		>0.99
Input Power		3P208 21.5KVAmx, 3P400 20.9KVAmx
Efficiency ^[1]		3P208 ~90.5%@250V, 3P208 ~85%@180A
		3P400 ~91.5%@250V, 3P400 ~85.5%@180A
Output		
Voltage Range		0~250V
Current Range ^[2]		0~180A
Power Range		0~18000W
Max. Setup Range	Voltage	0~262.5V(0~105%)
	Current	0~189A(0~105%)
	Power	0~18900W(0~105%)
	Internal Resistance	0~41.6667Ω
Accuracy	Voltage	<0.1% Umax(250mV)
	Current	<0.2% Imax(360mA)
	Power	<0.5%+90W
	Internal Resistance	R<2% Rmax, I<0.3% Imax
Line Regulation	Voltage	<0.02% Umax(50mV)
	Current	<0.05% Imax(90mA)
	Power	<0.05% Pmax
Load Regulation ^[3]	Voltage	<0.05% Umax(125mV) @Rated Voltage, <0.1% Umax(250mV) @Rated Current
	Current	<0.15% Imax(270mA)
	Power	<0.75% Pmax
Rise Time	Voltage	<15ms (No Load) <30ms (Full Load)
Drop Time	Voltage	<950ms (No Load) <15ms (Full Load)
Transient Response Time ^[4]	Voltage	≤1.5ms/2.5V
Display Resolution	Voltage	0.001V
	Current	0.001A
	Power	0.1W
	Internal Resistance	0.0001Ω
Measurement Accuracy	Voltage	<0.1% Umax(250mV)
	Current	<0.2% Imax(360mA)
	Power	<0.5% Pmax
	Internal Resistance	<0.4% Rmax
Ripple ^[5]	Voltage	<850mVpp, <75mVrms
	Current	<100mArms
Remote Compensation	Voltage	1%Umax(2.5V)
General		
Graphic Display		4.3" Color touch LCD
Operation Key Feature		Soft keys, Numeric keys, Rotary knob, USB port for transfer and upgrading firmware
Rack Mount Handles		Yes
FAN		Temperature control
Protection		OCP, OVP, OPP, OTP, HARD FAIL

SP-3U/6U Series Wide-range High-power Programmable DC Power Supply

MODEL	SP250VDC18000W
Interface	RS232/RS485/USB(Standard), GPIB/LAN(Optional), CAN(Optional)
Command Response Time	<3ms
Analog Interface(Optional)	
Set Value Inputs	Analog input 0~5V/0~10V or 0~5kΩ/0~10kΩ to set 0~105% voltage, current and power
Actual Value Output	Analog output 0~5V/0~10V to monitor the voltage and current.
Accuracy U/I/P/R	<0.2% F.S
Actual Output U/I	<0.2%
Control Signals	DC ON/OFF, External control Enable/Disable
Status Signals	CV, OVP, OT
Sampling Rate of Input & Output	45Hz
Galvanic Isolation to the Device	2121VDC
Master/Slave Control	
Series Output	MAX 2 units
Parallel Output	MAX 16 units
Environmental	
Operating Temperature ^[2]	0~40°C
Storage Temperature	-20~70°C
Temperature Coefficient	100ppm/°C(voltage), 150ppm/°C(current)
Relative Humidity	<95%RH(non-condensing)@35°C, <80%RH(non-condensing)@40°C
Altitude	<2000m@40°C
Fan Noise	45dB Idle; 75dB Max;
Mechanical	
Dimensions(WxHxD)	423.0x133.0x718.0 mm
Package Dimensions(WxHxD)	665.0x347.0x1009.0 mm
Unit Weight	50kg
Shipping Weight	60kg
Miscellaneous	
Over Voltage Category	II
Protection Class	I
Pollution Degree	2
Insulation	AC input <->DC output, 4242VDC, AC input <-> PE, 2818VDC

[1] For different input voltage standard option must be specified at the time of order as they are installed at the factory prior to shipment.

[2] It is recommended that the output current is derated by 10% when the operation environment is higher than 30°C.

[3] Load transient from 0% to 100% of rated output.

[4] Test value at 100% voltage and 100% power.

[5] Vrms @ 300kHz, Vpp @ 20MHz, Arms @ 300kHz.

SP-3U/6U Series Wide-range High-power Programmable DC Power Supply

MODEL	SP360VDC6000W	SP360VDC12000W	SP360VDC18000W	
Input				
Voltage ^[1]	187~305VAC 340~480VAC			
Current ^[1]	3P208 L3-0, L1,L2-38A 3P400 L3-0, L1,L2-19A	3P208 L1-60A, L2,L3-38A 3P400 L1-30A, L2,L3-19A	3P208 L1,L2,L3-60A 3P400 L1,L2,L3-30A	
Frequency	45-65Hz			
Connection	2ph, PE	3ph, PE	3ph, PE	
Fuse (Internal) ^[1]	T50A*2pcs T30A*2pcs			
Power Factor	>0.99			
Input Power	3P208 6.7kVAmax, 3P400 6.5kVAmax	3P208 13.4kVAmax, 3P400 13.0kVAmax	3P208 20.1kVAmax, 3P400 19.5kVAmax	
Efficiency ^[1]	3P208 ~92.2%@360V, 3P208 ~90.5%@42.5A 3P400 ~92.5%@360V, 3P400 ~91%@42.5A	3P208 ~92.5%@360V, 3P208 ~90.5%@85A 3P400 ~92.5%@360V, 3P400 ~91%@85A	3P208 ~92.5%@360V, 3P208 ~90.5%@127.5A 3P400 ~92.5%@360V, 3P400 ~91%@127.5A	
Output				
Voltage Range	0~360V			
Current Range	0~42.5A	0~85A	0~127.5A	
Power Range	0~6000W	0~12000W	0~18000W	
Max. Setup Range	Voltage	0~378V(0~105%)		
	Current	0~44.63A(0~105%)	0~89.25A(0~105%)	0~133.88A(0~105%)
	Power	0~6300W(0~105%)		
	Internal Resistance	0~440Ω	0~220Ω	0~147Ω
Accuracy	Voltage	<0.1%Umax(360mV)		
	Current	<0.2%Imax(85mA)	<0.2%Imax(170mA)	<0.2%Imax(255mA)
	Power	<1%+60W		
	Internal Resistance	R<2% Rmax, I<0.3% Imax		
Line Regulation	Voltage	<0.02% Umax(72mV)		
	Current	<0.05% Imax(22mA)	<0.05% Imax(43mA)	<0.05% Imax(64mA)
	Power	<0.05% Pmax		
Load Regulation ^[2]	Voltage	<0.05% Umax(180mV) @Rated Voltage, <0.1% Umax(360mV) @Rated Current		
	Current	<0.15% Imax(64mA)	<0.15% Imax(128mA)	<0.15% Imax(191mA)
	Power	<0.75% Pmax		
Rise Time	Voltage	<15ms (No Load) <80ms (Full Load)		
Drop Time	Voltage	<800ms (No Load) <15ms (Full Load)		
Transient Response Time ^[3]	Voltage	≤1.5ms/3.6V		
Display Resolution	Voltage	0.01V		
	Current	0.001A		
	Power	1W		
	Internal Resistance	0.001Ω		
Measurement Accuracy	Voltage	<0.1% Umax(360mV)		
	Current	<0.2% Imax(85mA)	<0.2% Imax(170mA)	<0.2% Imax(255mA)
	Power	<0.5% Pmax		
	Internal Resistance	<0.4% Rmax		
Ripple ^[4]	Voltage	<320mVpp, <55mVrms		
	Current	<21mArms	<43mArms	<64mArms
Remote Compensation	Voltage	3%Umax(10.8V)		
Sink Function				
Input Voltage	0~360V			
Input Current	0~25A	0~50A	0~75A	
Input Power	0~325W	0~650W	0~975W	
Min. Operating Voltage	8V@16A	8V@24A	8V@40A	
CC Resolution	2mA	4mA	6mA	

SP-3U/6U Series Wide-range High-power Programmable DC Power Supply

MODEL	SP360VDC6000W	SP360VDC12000W	SP360VDC18000W
CC Accuracy	<0.2% I _{max} (50mA)	<0.2% I _{max} (100mA)	<0.2% I _{max} (150mA)
CV Resolution	<20mV		
CV Accuracy	<0.1% U _{max} (360mV)		
CP Resolution	0.5W	1.0W	1.5W
CP Accuracy	<0.5% P _{max} (1625mW)	<0.5% P _{max} (3250mW)	<0.5% P _{max} (4875mW)
Slew Rate	0.01~2.5A/us		
Dynamic Mode	20ms~50s		
General			
Graphic Display	4.3" Color touch LCD		
Operation Key Feature	Soft keys, Numeric keys, Rotary knob, USB port for transfer and upgrading firmware		
Rack Mount Handles	Yes		
FAN	Temperature control		
Protection	OCP, OVP, OPP, OTP, HARD FAIL		
Interface	RS232/RS485/USB(Standard), GPIB/LAN(Optional), CAN(Optional)		
Command Response Time	<3ms		
Analog Interface(Optional)			
Set Value Inputs	Analog input 0~5V/0~10V or 0~5kΩ/0~10kΩ to set 0~105% voltage, current and power		
Actual Value Output	Analog output 0~5V/0~10V to monitor the voltage and current.		
Accuracy U/I/P/R	<0.2% F.S		
Actual Output U/I	<0.2%		
Control Signals	DC ON/OFF, External control Enable/Disable		
Status Signals	CV, OVP, OT		
Sampling Rate of Input & Output	45Hz		
Galvanic Isolation to the Device	2818VDC		
Master/Slave Control			
Series Output	MAX 2 units		
Parallel Output	MAX 16 units		
Environmental			
Operating Temperature	0~40°C		
Storage Temperature	-20~70°C		
Temperature Coefficient	100ppm/°C(voltage), 150ppm/°C(current)		
Relative Humidity	<95%RH(non-condensing)@35°C, <80%RH(non-condensing)@40°C		
Altitude	<2000m@40°C		
Fan Noise	45dB Idle; 71dB Max;	45dB Idle; 73dB Max;	45dB Idle; 75dB Max;
Mechanical			
Dimensions(WxHxD)	423.0x133.0x718.0 mm		
Package Dimensions(WxHxD)	665.0x347.0x1009.0 mm		
Unit Weight	27kg	38kg	50kg
Shipping Weight	37kg	48kg	60kg
Miscellaneous			
Over Voltage Category	II		
Protection Class	I		
Pollution Degree	2		
Insulation	AC input <->DC output, 4242VDC, AC input <-> PE, 2818VDC		

[1] For different input voltage standard option must be specified at the time of order as they are installed at the factory prior to shipment.

[2] Load transient from 0% to 100% of rated output.

[3] Test value at 100% voltage and 100% power.

[4] V_{rms} @ 300kHz, V_{pp} @ 20MHz, Arms @ 300kHz.

SP-3U/6U Series Wide-range High-power Programmable DC Power Supply

MODEL	SP360VDC24000W	SP360VDC30000W	SP360VDC36000W	
Input				
Voltage ⁽¹⁾	196~305VAC 340~480VAC			
Current ⁽¹⁾	3P208 L3-60A , L1, L2-103A 3P400 L3-30A, L1,L2-49A	3P208 L1-125A,L2,L3-103A 3P400 L1-63A,L2,L3-49A	3P208 L1,L2,L3-125A 3P400 L1,L2,L3-63A	
Frequency	45-65Hz			
Connection	3ph, PE			
Fuse (Internal) ⁽¹⁾	T50A*2pcs T30A*2pcs			
Power Factor	>0.99			
Input Power	3P208 26.8kVAmax, 3P400 26.0kVAmax	3P208 33.5kVAmax, 3P400 32.5kVAmax	3P208 40.2kVAmax, 3P400 39.0kVAmax	
Efficiency ⁽¹⁾	3P208 ~92.2%@360V, 3P208 ~90.5%@170A 3P400 ~92.5%@360V, 3P400 ~91%@170A	3P208 ~92.2%@360V, 3P208 ~90.5%@212.5A 3P400 ~92.5%@360V, 3P400 ~91%@212.5A	3P208 ~92.2%@360V, 3P208 ~90.5%@255A 3P400 ~92.5%@360V, 3P400 ~91%@255A	
Output				
Voltage Range	0~360V			
Current Range	0~170A	0~212.5A	0~255A	
Power Range	0~24000W	0~30000W	0~36000W	
Max. Setup Range	Voltage	0~378V(0~105%)		
	Current	0~178.5A(0~105%)	0~223.13A(0~105%)	0~267.75A(0~105%)
	Power	0~26400W(0~105%)		
	Internal Resistance	0~64Ω	0~51Ω	0~43Ω
Accuracy	Voltage	<0.1%Umax(360mV)		
	Current	<0.2%Imax(340mA)	<0.2%Imax(425mA)	<0.2%Imax(510mA)
	Power	<1%+180W		
	Internal Resistance	R<2% Rmax, I<0.3% Imax		
Line Regulation	Voltage	<0.02% Umax(72mV)		
	Current	<0.05% Imax(85mA)	<0.05% Imax(106mA)	<0.05% Imax(128mA)
	Power	<0.05% Pmax		
Load Regulation ⁽²⁾	Voltage	<0.05% Umax(180mV) @Rated Voltage, <0.1% Umax(360mV) @Rated Current		
	Current	<0.15% Imax(255mA)	<0.15% Imax(319mA)	<0.15% Imax(383mA)
	Power	<0.75% Pmax		
Rise Time	Voltage	<15ms (No Load) <80ms (Full Load)		
Drop Time	Voltage	<800ms (No Load) <15ms (Full Load)		
Transient Response Time ⁽³⁾	Voltage	≤1.5ms/3.6V		
Display Resolution	Voltage	0.01V		
	Current	0.001A		
	Power	1W		
	Internal Resistance	0.001Ω		
Measurement Accuracy	Voltage	<0.1% Umax(360mV)		
	Current	<0.2% Imax(340mA)	<0.2% Imax(425mA)	<0.2% Imax(510mA)
	Power	<0.5% Pmax		
	Internal Resistance	<0.4% Rmax		
Ripple ⁽⁴⁾	Voltage	<350mVpp, <60mVrms		
	Current	<85mArms	<106mArms	<128mArms
Remote Compensation	Voltage	3%Umax(10.8V)		
Sink Function				
Input Voltage	0~360V			
Input Current	0~100A	0~125A	0~150A	
Input Power	0~1300W	0~1625W	0~1950W	
Min. Operating Voltage	8V@56A	8V@64A	8V@80A	
CC Resolution	8mA	10mA	12mA	

SP-3U/6U Series Wide-range High-power Programmable DC Power Supply

MODEL	SP360VDC24000W	SP360VDC30000W	SP360VDC36000W
CC Accuracy	<0.2% I _{max} (200mA)	<0.2% I _{max} (250mA)	<0.2% I _{max} (300mA)
CV Resolution	<20mV		
CV Accuracy	<0.1% U _{max} (360mV)		
CP Resolution	2W	2.5W	3W
CP Accuracy	<0.5% P _{max} (6500mW)	<0.5% P _{max} (8125mW)	<0.5% P _{max} (9750mW)
Slew Rate	0.01~2.5A/us		
Dynamic Mode	20ms~50s		
General			
Graphic Display	4.3" Color touch LCD		
Operation Key Feature	Soft keys, Numeric keys, Rotary knob, USB port for transfer and upgrading firmware		
Rack Mount Handles	Yes		
FAN	Temperature control		
Protection	OCP, OVP, OPP, OTP, HARD FAIL		
Interface	RS232/RS485/USB(Standard), GPIB/LAN(Optional), CAN(Optional)		
Command Response Time	<3ms		
Analog Interface(Optional)			
Set Value Inputs	Analog input 0~5V/0~10V or 0~5kΩ/0~10kΩ to set 0~105% voltage, current and power		
Actual Value Output	Analog output 0~5V/0~10V to monitor the voltage and current.		
Accuracy U/I/P/R	<0.2% F.S		
Actual Output U/I	<0.2%		
Control Signals	DC ON/OFF, External control Enable/Disable		
Status Signals	CV, OVP, OT		
Sampling Rate of Input & Output	45Hz		
Galvanic Isolation to the Device	2818VDC		
Master/Slave Control			
Series Output	MAX 2 units		
Parallel Output	MAX 16 units		
Environmental			
Operating Temperature	0~40°C		
Storage Temperature	-20~70°C		
Temperature Coefficient	100ppm/°C(voltage), 150ppm/°C(current)		
Relative Humidity	<95%RH(non-condensing)@35°C, <80%RH(non-condensing)@40°C		
Altitude	<2000m@40°C		
Fan Noise	48dB Idle; 77dB Max;	48dB Idle; 80dB Max;	48dB Idle; 82dB Max;
Mechanical			
Dimensions(WxHxD)	423.0x265.0x745.0 mm		
Package Dimensions(WxHxD)	549.0x531.0x946.0 mm		
Unit Weight	75kg	86kg	97kg
Shipping Weight	101kg	112kg	123kg
Miscellaneous			
Over Voltage Category	II		
Protection Class	I		
Pollution Degree	2		
Insulation	AC input <->DC output, 4242VDC, AC input <-> PE, 2818VDC		

[1] For different input voltage standard option must be specified at the time of order as they are installed at the factory prior to shipment.

[2] Load transient from 0% to 100% of rated output.

[3] Test value at 100% voltage and 100% power.

[4] V_{rms} @ 300kHz, V_{pp} @ 20MHz, Arms @ 300kHz.

SP-3U/6U Series Wide-range High-power Programmable DC Power Supply

MODEL	SP500VDC6000W	SP500VDC12000W	SP500VDC18000W	
Input				
Voltage ^[1]	187~305VAC 340~480VAC			
Current ^[1]	3P208 L3-0, L1,L2-38A	3P208 L1-60A, L2,L3-38A	3P208 L1,L2,L3-60A	
	3P400 L3-0, L1,L2-19A	3P400 L1-30A, L2,L3-19A	3P400 L1,L2,L3-30A	
Frequency	45-65Hz			
Connection	2ph, PE	3ph, PE	3ph, PE	
Fuse (Internal) ^[1]	T50A*2pcs			
	T30A*2pcs			
Power Factor	>0.99			
Input Power	3P208 6.7kVAmax, 3P400 6.5kVAmax	3P208 13.4kVAmax, 3P400 13.0kVAmax	3P208 20.1kVAmax, 3P400 19.5kVAmax	
Efficiency ^[1]	3P208 ~92.5%@500V, 3P208 ~91%@32A	3P208 ~92.5%@500V, 3P208 ~91%@64A	3P208 ~92.5%@500V, 3P208 ~91%@96A	
	3P400 ~94%@500V, 3P400 ~92.5%@32A	3P400 ~94%@500V, 3P400 ~92.5%@64A	3P400 ~94%@500V, 3P400 ~92.5%@96A	
Output				
Voltage Range	0~500V			
Current Range	0~32A	0~64A	0~96A	
Power Range	0~6000W	0~12000W	0~18000W	
Max. Setup Range	Voltage	0~525V(0~105%)		
	Current	0~33.6A(0~105%)	0~67.2A(0~105%)	0~100.8A(0~105%)
	Power	0~6300W(0~105%)		
	Internal Resistance	0~469Ω	0~235Ω	0~157Ω
Accuracy	Voltage	<0.1% Umax(500mV)		
	Current	<0.2% I _{max} (64mA)	<0.2% I _{max} (128mA)	<0.2% I _{max} (192mA)
	Power	<1%+60W		
	Internal Resistance	R<2% R _{max} , I<0.3% I _{max}		
Line Regulation	Voltage	<0.02% Umax(100mV)		
	Current	<0.05% I _{max} (16mA)	<0.05% I _{max} (32mA)	<0.05% I _{max} (48mA)
	Power	<0.05% P _{max}		
Load Regulation ^[2]	Voltage	<0.05% Umax(250mV) @Rated Voltage, <0.1% Umax(500mV) @Rated Current		
	Current	<0.15% I _{max} (48mA)	<0.15% I _{max} (96mA)	<0.15% I _{max} (144mA)
	Power	<0.75% P _{max}		
Rise Time	Voltage	<15ms (No Load) <80ms (Full Load)		
Drop Time	Voltage	<1500ms (No Load) <15ms (Full Load)		
Transient Response Time ^[3]	Voltage	≤1.5ms/5V		
Display Resolution	Voltage	0.01V		
	Current	0.001A		
	Power	1W		
	Internal Resistance	0.001Ω		
Measurement Accuracy	Voltage	<0.1% Umax(500mV)		
	Current	<0.2% I _{max} (64mA)	<0.2% I _{max} (128mA)	<0.2% I _{max} (192mA)
	Power	<0.5% P _{max}		
	Internal Resistance	<0.4% R _{max}		
Ripple ^[4]	Voltage	<600mVpp, <150mVrms	<650mVpp, <160mVrms	<650mVpp, <160mVrms
	Current	<16mArms	<32mArms	<48mArms
Remote Compensation	Voltage	3%Umax(15V)		
Sink Function				
Input Voltage	0~500V			
Input Current	0~16A	0~24A	0~40A	
Input Power	0~325W	0~650W	0~975W	
Min. Operating Voltage	8V@16A	8V@24A	8V@40A	
CC Resolution	1mA	2mA	3mA	

SP-3U/6U Series Wide-range High-power Programmable DC Power Supply

MODEL	SP500VDC6000W	SP500VDC12000W	SP500VDC18000W
CC Accuracy	<0.2% I _{max} (32mA)	<0.2% I _{max} (48mA)	<0.2% I _{max} (80mA)
CV Resolution	<4mV		
CV Accuracy	<0.1% U _{max} (500mV)		
CP Resolution	0.5W	1.0W	1.5W
CP Accuracy	<0.5% P _{max} (1625mW)	<0.5% P _{max} (3250mW)	<0.5% P _{max} (4875mW)
Slew Rate	0.01~2.5A/us		
Dynamic Mode	20ms~50s		
General			
Graphic Display	4.3" Color touch LCD		
Operation Key Feature	Soft keys, Numeric keys, Rotary knob, USB port for transfer and upgrading firmware		
Rack Mount Handles	Yes		
FAN	Temperature control		
Protection	OCP, OVP, OPP, OTP, HARD FAIL		
Interface	RS232/RS485/USB(Standard), GPIB/LAN(Optional), CAN(Optional)		
Command Response Time	<3ms		
Analog Interface(Optional)			
Set Value Inputs	Analog input 0~5V/0~10V or 0~5kΩ/0~10kΩ to set 0~105% voltage, current and power		
Actual Value Output	Analog output 0~5V/0~10V to monitor the voltage and current.		
Accuracy U/I/P/R	<0.2% F.S		
Actual Output U/I	<0.2%		
Control Signals	DC ON/OFF, External control Enable/Disable		
Status Signals	CV, OVP, OT		
Sampling Rate of Input & Output	45Hz		
Galvanic Isolation to the Device	2818VDC		
Master/Slave Control			
Series Output	MAX 2 units		
Parallel Output	MAX 16 units		
Environmental			
Operating Temperature	0~40°C		
Storage Temperature	-20~70°C		
Temperature Coefficient	100ppm/°C(voltage), 150ppm/°C(current)		
Relative Humidity	<95%RH(non-condensing)@35°C, <80%RH(non-condensing)@40°C		
Altitude	<2000m@40°C		
Fan Noise	45dB Idle; 71dB Max;	45dB Idle; 73dB Max;	45dB Idle; 75dB Max;
Mechanical			
Dimensions(WxHxD)	423.0x133.0x718.0 mm		
Package Dimensions(WxHxD)	665.0x347.0x1009.0 mm		
Unit Weight	27kg	38kg	50kg
Shipping Weight	37kg	48kg	60kg
Miscellaneous			
Over Voltage Category	II		
Protection Class	I		
Pollution Degree	2		
Insulation	AC input <->DC output, 4242VDC, AC input <-> PE, 2818VDC		

[1] For different input voltage standard option must be specified at the time of order as they are installed at the factory prior to shipment.

[2] Load transient from 0% to 100% of rated output.

[3] Test value at 100% voltage and 100% power.

[4] V_{rms} @ 300kHz, V_{pp} @ 20MHz, Arms @ 300kHz.

SP-3U/6U Series Wide-range High-power Programmable DC Power Supply

MODEL	SP500VDC24000W	SP500VDC30000W	SP500VDC36000W	
Input				
Voltage ⁽¹⁾	196~305VAC 340~480VAC			
Current ⁽¹⁾	3P208 L1-60A, L2,L3-103A 3P400 L1-30A, L2,L3-49A	3P208 L1-125A,L2,L3-103A 3P400 L1-63A,L2,L3-49A	3P208 L1,L2,L3-125A 3P400 L1,L2,L3-63A	
Frequency	45-65Hz			
Connection	3ph, PE			
Fuse (Internal) ⁽¹⁾	T50A*2pcs T30A*2pcs			
Power Factor	>0.99			
Input Power	3P208 26.8kVAmax, 3P400 26.0kVAmax	3P208 33.5kVAmax, 3P400 32.5kVAmax	3P208 40.2kVAmax, 3P400 39.0kVAmax	
Efficiency ⁽¹⁾	3P208 ~92.5%@500V, 3P208 ~91%@128A 3P400 ~94%@500V, 3P400 ~92.5%@128A	3P208 ~92.5%@500V, 3P208 ~91%@160A 3P400 ~94%@500V, 3P400 ~92.5%@160A	3P208 ~92.5%@500V, 3P208 ~91%@192A 3P400 ~94%@500V, 3P400 ~92.5%@192A	
Output				
Voltage Range	0~500V			
Current Range	0~128A	0~160A	0~192A	
Power Range	0~24000W	0~30000W	0~36000W	
Max. Setup Range	Voltage	0~525V(0~105%)		
	Current	0~134.4A(0~105%)	0~168A(0~105%)	0~201.6A(0~105%)
	Power	0~26400W(0~105%)	0~31500W(0~105%)	0~37800W(0~105%)
	Internal Resistance	0~118Ω	0~94Ω	0~79Ω
Accuracy	Voltage	<0.1% Umax(500mV)		
	Current	<0.2% I _{max} (256mA)	<0.2% I _{max} (320mA)	<0.2% I _{max} (384mA)
	Power	<1%+180W	<1%+240W	<1%+360W
	Internal Resistance	R<2% R _{max} , I<0.3% I _{max}		
Line Regulation	Voltage	<0.02% Umax(100mV)		
	Current	<0.05% I _{max} (64mA)	<0.05% I _{max} (80mA)	<0.05% I _{max} (96mA)
	Power	<0.05% P _{max}		
Load Regulation ⁽²⁾	Voltage	<0.05% Umax(250mV) @Rated Voltage, <0.1% Umax(500mV) @Rated Current		
	Current	<0.15% I _{max} (192mA)	<0.15% I _{max} (240mA)	<0.15% I _{max} (288mA)
	Power	<0.75% P _{max}		
Rise Time	Voltage	<15ms (No Load) <80ms (Full Load)		
Drop Time	Voltage	<1500ms (No Load) <15ms (Full Load)		
Transient Response Time ⁽³⁾	Voltage	≤1.5ms/5V		
Display Resolution	Voltage	0.01V		
	Current	0.001A		
	Power	1W		
	Internal Resistance	0.001Ω		
Measurement Accuracy	Voltage	<0.1% Umax(500mV)		
	Current	<0.2% I _{max} (256mA)	<0.2% I _{max} (320mA)	<0.2% I _{max} (384mA)
	Power	<0.5% P _{max}		
	Internal Resistance	<0.4% R _{max}		
Ripple ⁽⁴⁾	Voltage	<650mV _{pp} , <160mV _{rms}		
	Current	<64mArms	<80mArms	<96mArms
Remote Compensation	Voltage	3% Umax(15V)		
Sink Function				
Input Voltage	0~500V			
Input Current	0~56A	0~64A	0~80A	
Input Power	0~1300W	0~1625W	0~1950W	
Min. Operating Voltage	8V@56A	8V@64A	8V@80A	
CC Resolution	4mA	5mA	6mA	

SP-3U/6U Series Wide-range High-power Programmable DC Power Supply

MODEL	SP500VDC24000W	SP500VDC30000W	SP500VDC36000W
CC Accuracy	<0.2% I _{max} (112mA)	<0.2% I _{max} (128mA)	<0.2% I _{max} (160mA)
CV Resolution	<4mV		
CV Accuracy	<0.1% U _{max} (500mV)		
CP Resolution	2W	2.5W	3W
CP Accuracy	<0.5% P _{max} (6500mW)	<0.5% P _{max} (8125mW)	<0.5% P _{max} (9750mW)
Slew Rate	0.01~2.5A/us		
Dynamic Mode	20ms~50s		
General			
Graphic Display	4.3" Color touch LCD		
Operation Key Feature	Soft keys, Numeric keys, Rotary knob, USB port for transfer and upgrading firmware		
Rack Mount Handles	Yes		
FAN	Temperature control		
Protection	OCP, OVP, OPP, OTP, HARD FAIL		
Interface	RS232/RS485/USB(Standard), GPIB/LAN(Optional), CAN(Optional)		
Command Response Time	<3ms		
Analog Interface(Optional)			
Set Value Inputs	Analog input 0~5V/0~10V or 0~5kΩ/0~10kΩ to set 0~105% voltage, current and power		
Actual Value Output	Analog output 0~5V/0~10V to monitor the voltage and current.		
Accuracy U/I/P/R	<0.2% F.S		
Actual Output U/I	<0.2%		
Control Signals	DC ON/OFF, External control Enable/Disable		
Status Signals	CV, OVP, OT		
Sampling Rate of Input & Output	45Hz		
Galvanic Isolation to the Device	2818VDC		
Master/Slave Control			
Series Output	MAX 2 units		
Parallel Output	MAX 16 units		
Environmental			
Operating Temperature	0~40°C		
Storage Temperature	-20~70°C		
Temperature Coefficient	100ppm/°C(voltage), 150ppm/°C(current)		
Relative Humidity	<95%RH(non-condensing)@35°C, <80%RH(non-condensing)@40°C		
Altitude	<2000m@40°C		
Fan Noise	48dB Idle; 77dB Max;	48dB Idle; 80dB Max;	48dB Idle; 82dB Max;
Mechanical			
Dimensions(WxHxD)	423.0x265.0x745.0 mm		
Package Dimensions(WxHxD)	549.0x531.0x946.0 mm		
Unit Weight	75kg	86kg	97kg
Shipping Weight	101kg	112kg	123kg
Miscellaneous			
Over Voltage Category	II		
Protection Class	I		
Pollution Degree	2		
Insulation	AC input <->DC output, 4242VDC, AC input <-> PE, 2818VDC		

[1] For different input voltage standard option must be specified at the time of order as they are installed at the factory prior to shipment.

[2] Load transient from 0% to 100% of rated output.

[3] Test value at 100% voltage and 100% power.

[4] V_{rms} @ 300kHz, V_{pp} @ 20MHz, Arms @ 300kHz.

SP-3U/6U Series Wide-range High-power Programmable DC Power Supply

MODEL	SP750VDC6000W	SP750VDC12000W	SP750VDC18000W	
Input				
Voltage ⁽¹⁾	187~305VAC 340~480VAC			
Current ⁽¹⁾	3P208 L3-0, L1,L2-38A 3P400 L3-0, L1,L2-19A	3P208 L1-60A, L2,L3-38A 3P400 L1-30A, L2,L3-19A	3P208 L1,L2,L3-60A 3P400 L1,L2,L3-30A	
Frequency	45-65Hz			
Connection	2ph, PE	3ph, PE	3ph, PE	
Fuse (Internal) ⁽¹⁾	T50A*2pcs T30A*2pcs			
Power Factor	>0.99			
Input Power	3P208 6.7KVAmx, 3P400 6.5KVAmx	3P208 13.4KVAmx, 3P400 13.0KVAmx	3P208 20.1KVAmx, 3P400 19.5KVAmx	
Efficiency ⁽¹⁾	3P208 ~92.5%@750V, 3P208 ~91%@21A 3P400 ~92.7%@750V, 3P400 ~92%@21A	3P208 ~92.5%@750V, 3P208 ~91%@42A 3P400 ~92.7%@750V, 3P400 ~92%@42A	3P208 ~92.5%@750V, 3P208 ~91%@63A 3P400 ~92.7%@750V, 3P400 ~92%@63A	
Output				
Voltage Range	0~750V			
Current Range	0~21A	0~42A	0~63A	
Power Range	0~6000W	0~12000W	0~18000W	
Max. Setup Range	Voltage	0~787.5V(0~105%)		
	Current	0~22.05A(0~105%)	0~44.1A(0~105%)	0~66.15A(0~105%)
	Power	0~6300W(0~105%)		
	Internal Resistance	0~1072Ω	0~536Ω	0~358Ω
Accuracy	Voltage	<0.1% Umax(750mV)		
	Current	<0.2% I _{max} (42mA)	<0.2% I _{max} (84mA)	<0.2% I _{max} (126mA)
	Power	<1%+60W		
	Internal Resistance	R<2% R _{max} , I<0.3% I _{max}		
Line Regulation	Voltage	<0.02% Umax(150mV)		
	Current	<0.05% I _{max} (10.5mA)	<0.05% I _{max} (21mA)	<0.05% I _{max} (31.5mA)
	Power	<0.05% P _{max}		
Load Regulation ⁽²⁾	Voltage	<0.05% Umax(375mV) @Rated Voltage, <0.1% Umax(750mV) @Rated Current		
	Current	<0.15% I _{max} (31.5mA)	<0.15% I _{max} (63mA)	<0.15% I _{max} (94.5mA)
	Power	<0.75% P _{max}		
Rise Time	Voltage	<15ms (No Load) <80ms (Full Load)		
Drop Time	Voltage	<600ms (No Load) <20ms (Full Load)		
Transient Response Time ⁽³⁾	Voltage	≤2ms/7.5V		
Display Resolution	Voltage	0.01V		
	Current	0.001A		
	Power	1W		
	Internal Resistance	0.001Ω		
Measurement Accuracy	Voltage	<0.1% Umax(750mV)		
	Current	<0.2% I _{max} (42mA)	<0.2% I _{max} (84mA)	<0.2% I _{max} (126mA)
	Power	<0.5% P _{max}		
	Internal Resistance	<0.4% R _{max}		
Ripple ⁽⁴⁾	Voltage	<900mVpp, <225mVrms	<1000mVpp, <250mVrms	<1000mVpp, <250mVrms
	Current	<11mArms	<22mArms	<33mArms
Remote Compensation	Voltage	3% Umax(22.5V)		
Sink Function				
Input Voltage	0~750V			
Input Current	0~10A	0~15A	0~25A	
Input Power	0~325W	0~650W	0~975W	
Min. Operating Voltage	5V@10A	5V@15A	5V@25A	
CC Resolution	1mA	2mA	3mA	

SP-3U/6U Series Wide-range High-power Programmable DC Power Supply

MODEL	SP750VDC6000W	SP750VDC12000W	SP750VDC18000W
CC Accuracy	<0.2% I _{max} (20mA)	<0.2% I _{max} (30mA)	<0.2% I _{max} (50mA)
CV Resolution	<4mV		
CV Accuracy	<0.1% U _{max} (750mV)		
CP Resolution	0.5W	1.0W	1.5W
CP Accuracy	<0.5% P _{max} (1625mW)	<0.5% P _{max} (3250mW)	<0.5% P _{max} (4875mW)
Slew Rate	0.01~2.5A/us		
Dynamic Mode	20ms~50s		
General			
Graphic Display	4.3" Color touch LCD		
Operation Key Feature	Soft keys, Numeric keys, Rotary knob, USB port for transfer and upgrading firmware		
Rack Mount Handles	Yes		
FAN	Temperature control		
Protection	OCP, OVP, OPP, OTP, HARD FAIL		
Interface	RS232/RS485/USB(Standard), GPIB/LAN(Optional), CAN(Optional)		
Command Response Time	<3ms		
Analog Interface(Optional)			
Set Value Inputs	Analog input 0~5V/0~10V or 0~5kΩ/0~10kΩ to set 0~105% voltage, current and power		
Actual Value Output	Analog output 0~5V/0~10V to monitor the voltage and current.		
Accuracy U/I/P/R	<0.2% F.S		
Actual Output U/I	<0.2%		
Control Signals	DC ON/OFF, External control Enable/Disable		
Status Signals	CV, OVP, OT		
Sampling Rate of Input & Output	45Hz		
Galvanic Isolation to the Device	4242VDC		
Master/Slave Control			
Series Output	MAX 2 units		
Parallel Output	MAX 16 units		
Environmental			
Operating Temperature	0~40°C		
Storage Temperature	-20~70°C		
Temperature Coefficient	100ppm/°C(voltage), 150ppm/°C(current)		
Relative Humidity	<95%RH(non-condensing)@35°C, <80%RH(non-condensing)@40°C		
Altitude	<2000m@40°C		
Fan Noise	45dB Idle; 71dB Max;	45dB Idle; 73dB Max;	45dB Idle; 75dB Max;
Mechanical			
Dimensions(WxHxD)	423.0x133.0x718.0 mm		
Package Dimensions(WxHxD)	665.0x347.0x1009.0 mm		
Unit Weight	27kg	38kg	50kg
Shipping Weight	37kg	48kg	60kg
Miscellaneous			
Over Voltage Category	II		
Protection Class	I		
Pollution Degree	2		
Insulation	AC input <->DC output, 4242VDC, AC input <-> PE, 2818VDC		

[1] For different input voltage standard option must be specified at the time of order as they are installed at the factory prior to shipment.

[2] Load transient from 0% to 100% of rated output.

[3] Test value at 100% voltage and 100% power.

[4] V_{rms} @ 300kHz, V_{pp} @ 20MHz, Arms @ 300kHz.

SP-3U/6U Series Wide-range High-power Programmable DC Power Supply

MODEL	SP750VDC24000W	SP750VDC30000W	SP750VDC36000W	
Input				
Voltage ⁽¹⁾	196~305VAC 340~480VAC			
Current ⁽¹⁾	3P208 L3-60A, L1,L2-103A 3P400 L3-30A, L1,L2-49A	3P208 L1-125A,L2,L3-103A 3P400 L1-63A,L2,L3-49A	3P208 L1,L2,L3-125A 3P400 L1,L2,L3-63A	
Frequency	45-65Hz			
Connection	3ph, PE			
Fuse (Internal) ⁽¹⁾	T50A*2pcs T30A*2pcs			
Power Factor	>0.99			
Input Power	3P208 26.8KVAmx, 3P400 26.0KVAmx	3P208 33.5KVAmx, 3P400 32.5KVAmx	3P208 40.2KVAmx, 3P400 39.0KVAmx	
Efficiency ⁽¹⁾	3P208 ~92.5%@750V, 3P208 ~91%@84A 3P400 ~92.7%@750V, 3P400 ~92%@84A	3P208 ~92.5%@750V, 3P208 ~91%@105A 3P400 ~92.7%@750V, 3P400 ~92%@105A	3P208 ~92.5%@750V, 3P208 ~91%@126A 3P400 ~92.7%@750V, 3P400 ~92%@126A	
Output				
Voltage Range	0~750V			
Current Range	0~84A	0~105A	0~126A	
Power Range	0~24000W	0~30000W	0~36000W	
Max. Setup Range	Voltage	0~787.5V(0~105%)		
	Current	0~88.2A(0~105%)	0~110.25A(0~105%)	0~132.3A(0~105%)
	Power	0~26400W(0~105%)	0~31500W(0~105%)	0~37800W(0~105%)
	Internal Resistance	0~268Ω	0~215Ω	0~179Ω
Accuracy	Voltage	<0.1% Umax(750mV)		
	Current	<0.2% I _{max} (168mA)	<0.2% I _{max} (210mA)	<0.2% I _{max} (252mA)
	Power	<1%+180W	<1%+240W	<1%+360W
	Internal Resistance	R<2% R _{max} , I<0.3% I _{max}		
Line Regulation	Voltage	<0.02% Umax(150mV)		
	Current	<0.05% I _{max} (42mA)	<0.05% I _{max} (52.5mA)	<0.05% I _{max} (63mA)
	Power	<0.05% P _{max}		
Load Regulation ⁽²⁾	Voltage	<0.05% Umax(375mV) @Rated Voltage, <0.1% Umax(750mV) @Rated Current		
	Current	<0.15% I _{max} (126mA)	<0.15% I _{max} (157.5mA)	<0.15% I _{max} (189mA)
	Power	<0.75%P _{max}		
Rise Time	Voltage	<15ms (No Load) <80ms (Full Load)		
Drop Time	Voltage	<600ms (No Load) <20ms (Full Load)		
Transient Response Time ⁽³⁾	Voltage	≤2ms/7.5V		
Display Resolution	Voltage	0.01V		
	Current	0.001A		
	Power	1W		
	Internal Resistance	0.001Ω		
Measurement Accuracy	Voltage	<0.1% Umax(750mV)		
	Current	<0.2% I _{max} (168mA)	<0.2% I _{max} (210mA)	<0.2% I _{max} (252mA)
	Power	<0.5% P _{max}		
	Internal Resistance	<0.4% R _{max}		
Ripple ⁽⁴⁾	Voltage	<1000mVpp, <250mVrms		
	Current	<44mArms	<55mArms	<66mArms
Remote Compensation	Voltage	3% Umax(22.5V)		
Sink Function				
Input Voltage	0~750V			
Input Current	0~35A	0~40A	0~45A	
Input Power	0~1200W	0~1500W	0~1800W	
Min. Operating Voltage	5V@35A	5V@40A	5V@45A	
CC Resolution	4mA	5mA	6mA	

SP-3U/6U Series Wide-range High-power Programmable DC Power Supply

MODEL	SP750VDC24000W	SP750VDC30000W	SP750VDC36000W
CC Accuracy	<0.2% I _{max} (70mA)	<0.2% I _{max} (80mA)	<0.2% I _{max} (90mA)
CV Resolution	<4mV		
CV Accuracy	<0.1% U _{max} (750mV)		
CP Resolution	2W	2.5W	3W
CP Accuracy	<0.5% P _{max} (6000mW)	<0.5% P _{max} (7500mW)	<0.5% P _{max} (9000mW)
Slew Rate	0.01~2.5A/us		
Dynamic Mode	20ms~50s		
General			
Graphic Display	4.3" Color touch LCD		
Operation Key Feature	Soft keys, Numeric keys, Rotary knob, USB port for transfer and upgrading firmware		
Rack Mount Handles	Yes		
FAN	Temperature control		
Protection	OCP, OVP, OPP, OTP, HARD FAIL		
Interface	RS232/RS485/USB(Standard), GPIB/LAN(Optional), CAN(Optional)		
Command Response Time	<3ms		
Analog Interface(Optional)			
Set Value Inputs	Analog input 0~5V/0~10V or 0~5kΩ/0~10kΩ to set 0~105% voltage, current and power		
Actual Value Output	Analog output 0~5V/0~10V to monitor the voltage and current.		
Accuracy U/I/P/R	<0.2% F.S		
Actual Output U/I	<0.2%		
Control Signals	DC ON/OFF, External control Enable/Disable		
Status Signals	CV, OVP, OT		
Sampling Rate of Input & Output	45Hz		
Galvanic Isolation to the Device	4242VDC		
Master/Slave Control			
Series Output	MAX 2 units		
Parallel Output	MAX 16 units		
Environmental			
Operating Temperature	0~40°C		
Storage Temperature	-20~70°C		
Temperature Coefficient	100ppm/°C(voltage), 150ppm/°C(current)		
Relative Humidity	<95%RH(non-condensing)@35°C, <80%RH(non-condensing)@40°C		
Altitude	<2000m@40°C		
Fan Noise	48dB Idle; 77dB Max;	48dB Idle; 80dB Max;	48dB Idle; 82dB Max;
Mechanical			
Dimensions(WxHxD)	423.0x265.0x745.0 mm		
Package Dimensions(WxHxD)	549.0x531.0x946.0 mm		
Unit Weight	75kg	86kg	97kg
Shipping Weight	101kg	112kg	123kg
Miscellaneous			
Over Voltage Category	II		
Protection Class	I		
Pollution Degree	2		
Insulation	AC input <->DC output, 4242VDC, AC input <-> PE, 2818VDC		

[1] For different input voltage standard option must be specified at the time of order as they are installed at the factory prior to shipment.

[2] Load transient from 0% to 100% of rated output.

[3] Test value at 100% voltage and 100% power.

[4] V_{rms} @ 300kHz, V_{pp} @ 20MHz, Arms @ 300kHz.

SP-3U/6U Series Wide-range High-power Programmable DC Power Supply

MODEL	SP1000VDC12000W	SP1000VDC24000W	SP1000VDC36000W	
Input				
Voltage ^[1]	187~305VAC 340~480VAC	196~305VAC	196~305VAC	
Current ^[1]	3P208 L1-60A, L2,L3-38A 3P400 L1-30A, L2,L3-19A	3P208 L3-60A, L1,L2-103A 3P400 L3-30A, L1,L2-49A	3P208 L1, L2,L3-103A 3P400 L1, L2,L3-63A	
Frequency	45-65Hz			
Connection	3ph, PE			
Fuse (Internal) ^[1]	T50A*2pcs T30A*2pcs			
Power Factor	>0.99			
Input Power	3P208 13.8kVAmax, 3P400 13.4kVAmax	3P208 27.6kVAmax, 3P400 26.8kVAmax	3P208 40.2kVAmax, 3P400 39.0kVAmax	
Efficiency ^[1]	3P208 ~92%@1000V, 3P208 ~90%@32A 3P400 ~93.5%@1000V, 3P400 ~92%@32A	3P208 ~92%@1000V, 3P208 ~90%@64A 3P400 ~93.5%@1000V, 3P400 ~92%@64A	3P208 ~92%@1000V, 3P208 ~90%@96A 3P400 ~93.5%@1000V, 3P400 ~92%@96A	
Output				
Voltage Range	0~1000V			
Current Range	0~32A	0~64A	0~96A	
Power Range	0~12000W	0~24000W	0~36000W	
Max. Setup Range	Voltage	0~1050V(0~105%)		
	Current	0~33.6A(0~105%)	0~67.2A(0~105%)	0~100.8A(0-105%)
	Power	0~12600W(0~105%)		
	Internal Resistance	0~937.5Ω	0~468.75Ω	0~312.5Ω
Accuracy	Voltage	<0.1% Umax(1000mV)		
	Current	<0.2% I _{max} (64mA)	<0.2% I _{max} (128mA)	<0.2% I _{max} (192mA)
	Power	<1%+90W		
	Internal Resistance	R<2% R _{max} , I<0.3% I _{max}		
Line Regulation	Voltage	<0.02% Umax(200mV)		
	Current	<0.05% I _{max} (16mA)	<0.05% I _{max} (32mA)	<0.05% I _{max} (48mA)
	Power	<0.05% P _{max}		
Load Regulation ^[2]	Voltage	<0.05% Umax(500mV) @Rated Voltage, <0.08% Umax(800mV) @Rated Current		
	Current	<0.15% I _{max} (48mA)	<0.15% I _{max} (96mA)	<0.15% I _{max} (144mA)
	Power	<0.75%P _{max}		
Rise Time	Voltage <15ms (No Load) <85ms (Full Load)	<15ms (No Load) <85ms (Full Load)	<15ms (No Load) <80ms (Full Load)	
Drop Time	Voltage <1700ms (No Load) <15ms (Full Load)			
Transient Response Time ^[3]	Voltage ≤2ms/10V	≤2ms/10V	≤1.5ms/5V	
Display Resolution	Voltage	0.01V		
	Current	0.001A		
	Power	1W		
	Internal Resistance	0.001Ω		
Measurement Accuracy	Voltage	<0.1% Umax(1V)		
	Current	<0.2% I _{max} (64mA)	<0.2% I _{max} (128mA)	<0.2% I _{max} (192mA)
	Power	<0.5% P _{max}		
	Internal Resistance	<0.4% R _{max}		
Ripple ^[4]	Voltage	<1500mVpp, <320mVrms		
	Current	<22mArms	<26mArms	<48mArms
Remote Compensation	Voltage	3% Umax(30V)		
General				
Graphic Display	4.3" Color touch LCD			
Operation Key Feature	Soft keys, Numeric keys, Rotary knob, USB port for transfer and upgrading firmware			
Rack Mount Handles	Yes			
FAN	Temperature control			
Protection	OCP, OVP, OPP, OTP, HARD FAIL			

SP-3U/6U Series Wide-range High-power Programmable DC Power Supply

MODEL	SP1000VDC12000W	SP1000VDC24000W	SP1000VDC36000W
Interface	RS232/RS485/USB(Standard), GPIB/LAN(Optional), CAN(Optional)		
Command Response Time	<3ms		
Analog Interface(Optional)			
Set Value Inputs	Analog input 0~5V/0~10V or 0~5kΩ/0~10kΩ to set 0~105% voltage, current and power		
Actual Value Output	Analog output 0~5V/0~10V to monitor the voltage and current.		
Accuracy U/I/P/R	<0.2% F.S		
Actual Output U/I	<0.2%		
Control Signals	DC ON/OFF, External control Enable/Disable		
Status Signals	CV, OVP, OT		
Sampling Rate of Input & Output	45Hz		
Galvanic Isolation to the Device	4242VDC		
Master/Slave Control			
Series Output	Not supported		
Parallel Output	MAX 16 units		
Environmental			
Operating Temperature	0~40°C		
Storage Temperature	-20~70°C		
Temperature Coefficient	100ppm/°C(voltage), 150ppm/°C(current)		
Relative Humidity	<95%RH(non-condensing)@35°C, <80%RH(non-condensing)@40°C		
Altitude	<2000m@40°C		
Fan Noise	45dB Idle; 73dB Max;	48dB Idle; 80dB Max;	48dB Idle; 82dB Max;
Mechanical			
Dimensions(WxHxD)	423.0x133.0x718.0 mm	423.0x265.0x745.0 mm	423.0x265.0x745.0 mm
Package Dimensions(WxHxD)	665.0x347.0x1009.0 mm	549.0x531.0x946.0 mm	549.0x531.0x946.0 mm
Unit Weight	38kg	75kg	97kg
Shipping Weight	48kg	101kg	123kg
Miscellaneous			
Over Voltage Category	II		
Protection Class	I		
Pollution Degree	2		
Insulation	AC input <->DC output, 4242VDC, AC input <-> PE, 2818VDC		

[1] For different input voltage standard option must be specified at the time of order as they are installed at the factory prior to shipment.

[2] Load transient from 0% to 100% of rated output.

[3] Test value at 100% voltage and 100% power.

[4] Vrms @ 300kHz, Vpp @ 20MHz, Arms @ 300kHz.

SP-3U/6U Series Wide-range High-power Programmable DC Power Supply

MODEL		SP1500VDC12000W	SP1500VDC18000W
Input			
Voltage ^[1]		187~305VAC 340~480VAC	
Current ^[1]		3P208 L1-60A, L2,L3-38A 3P400 L1-30A, L2,L3-19A	3P208 L1,L2,L3-60A 3P400 L1,L2,L3-30A
Frequency		45-65Hz	
Connection		3ph, PE	
Fuse (Internal) ^[1]		T50A*2pcs T25A*2pcs	T30A*2pcs
Power Factor		>0.99	
Input Power		3P208 13.8KVAmx, 3P400 13.4KVAmx	3P208 20.5KVAmx, 3P400 19.9KVAmx
Efficiency ^[1]		3P208 ~92%@1500V, 3P208 ~90.5%@21A 3P400 ~92.5%@1500V, 3P400 ~91.5%@21A	3P208 ~92%@1500V, 3P208 ~90%@32A 3P400 ~93.5%@1500V, 3P400 ~92%@32A
Output			
Voltage Range		0~1500V	
Current Range		0~21A	0~32A
Power Range		0~12000W	
Max. Setup Range	Voltage	0~1575V(0~105%)	
	Current	0~22.05A(0~105%)	0~33.6A(0~105%)
	Power	0~12600W(0~105%)	
	Internal Resistance	0~2142Ω	0~1406.3Ω
Accuracy	Voltage	<0.1% Umax(1.5V)	
	Current	<0.2% Imax(42mA)	<0.2% Imax(64mA)
	Power	<1%+90W	
	Internal Resistance	R<2% Rmax, I<0.3% Imax	
Line Regulation	Voltage	<0.02% Umax(300mV)	
	Current	<0.05% Imax(10.5mA)	<0.05% Imax(16mA)
	Power	<0.05% Pmax	
Load Regulation ^[2]	Voltage	<0.05% Umax(750mV) @Rated Voltage, <0.08% Umax(1200mV) @Rated Current	
	Current	<0.15% Imax(31.5mA)	<0.15% Imax(48mA)
	Power	<0.75% Pmax	
Rise Time	Voltage	<15ms (No Load) <80ms (Full Load)	<15ms (No Load) <90ms (Full Load)
Drop Time	Voltage	<700ms (No Load) <20ms (Full Load)	<1800ms (No Load) <15ms (Full Load)
Transient Response Time ^[3]	Voltage	≤2ms/15V	
Display Resolution	Voltage	0.01V	
	Current	0.001A	
	Power	1W	0.1W
	Internal Resistance	0.001Ω	
Measurement Accuracy	Voltage	<0.1% Umax(1.5V)	
	Current	<0.2% Imax(42mA)	<0.2% Imax(64mA)
	Power	<0.5% Pmax	
	Internal Resistance	<0.4% Rmax	
Ripple ^[4]	Voltage	<2500mVpp, <600mVrms	
	Current	<11mArms	<22mArms
Remote Compensation	Voltage	3% Umax(45V)	
General			
Graphic Display	4.3" Color touch LCD		
Operation Key Feature	Soft keys, Numeric keys, Rotary knob, USB port for transfer and upgrading firmware		
Rack Mount Handles	Yes		
FAN	Temperature control		
Protection	OCP, OVP, OPP, OTP, HARD FAIL		

SP-3U/6U Series Wide-range High-power Programmable DC Power Supply

MODEL	SP1500VDC12000W	SP1500VDC18000W
Interface	RS232/RS485/USB(Standard), GPIB/LAN(Optional), CAN(Optional)	
Command Response Time	<3ms	
Analog Interface(Optional)		
Set Value Inputs	Analog input 0~5V/0~10V or 0~5kΩ/0~10kΩ to set 0~105% voltage, current and power	
Actual Value Output	Analog output 0~5V/0~10V to monitor the voltage and current.	
Accuracy U/I/P/R	<0.2% F.S	
Actual Output U/I	<0.2%	
Control Signals	DC ON/OFF, External control Enable/Disable	
Status Signals	CV, OVP, OT	
Sampling Rate of Input & Output	45Hz	
Galvanic Isolation to the Device	5250VDC	
Master/Slave Control		
Series Output	MAX 2 units	
Parallel Output	MAX 16 units	
Environmental		
Operating Temperature	0~40°C	
Storage Temperature	-20~70°C	
Temperature Coefficient	100ppm/°C(voltage), 150ppm/°C(current)	
Relative Humidity	<95%RH(non-condensing)@35°C, <80%RH(non-condensing)@40°C	
Altitude	<2000m@40°C	
Fan Noise	45dB Idle; 73dB Max;	45dB Idle; 75dB Max;
Mechanical		
Dimensions(WxHxD)	423.0x133.0x718.0 mm	
Package Dimensions(WxHxD)	665.0x347.0x1009.0 mm	
Unit Weight	38kg	50kg
Shipping Weight	48kg	60kg
Miscellaneous		
Over Voltage Category	II	
Protection Class	I	
Pollution Degree	2	
Insulation	AC input <->DC output, 5040VDC, AC input <-> PE, 2818VDC	

[1] For different input voltage standard option must be specified at the time of order as they are installed at the factory prior to shipment.

[2] Load transient from 0% to 100% of rated output.

[3] Test value at 100% voltage and 100% power.

[4] Vrms @ 300kHz, Vpp @ 20MHz, Arms @ 300kHz.

SP-3U/6U Series Wide-range High-power Programmable DC Power Supply

MODEL		SP1500VDC24000W	SP1500VDC36000W
Input			
Voltage ^[1]	196~305VAC 340~480VAC		
Current ^[1]	3P208 L1-60A, L2,L3-103A 3P400 L1-30A, L2,L3-49A	3P208 L1,L2,L3-125A 3P400 L1,L2,L3-63A	
Frequency	45-65Hz		
Connection	3ph, PE		
Fuse (Internal) ^[1]	T50A*2pcs T25A*2pcs		
Power Factor	>0.99		
Input Power	3P208 27.6KVAmx, 3P400 26.8KVAmx	3P208 40.2KVAmx, 3P400 39.0KVAmx	
Efficiency ^[1]	3P208 ~92%@1500V, 3P208 ~90.5%@42A 3P400 ~92.5%@1500V, 3P400 ~91.5%@42A	3P208 ~92%@1500V, 3P208 ~90.5%@63A 3P400 ~92.5%@1500V, 3P400 ~91.5%@63A	
Output			
Voltage Range	0~1500V		
Current Range	0~42A	0~63A	
Power Range	0~24000W	0~36000W	
Max. Setup Range	Voltage	0~1575V(0~105%)	
	Current	0~44.1A(0~105%)	0~66.15A(0~105%)
	Power	0~26400W(0-105%)	0~37800W(0-105%)
	Internal Resistance	0~1071Ω	0~714Ω
Accuracy	Voltage	<0.1% Umax(1.5V)	
	Current	<0.2% Imax(84mA)	<0.2% Imax(126mA)
	Power	<1%+180W	<1%+360W
	Internal Resistance	R<2% Rmax, I<0.3% Imax	
Line Regulation	Voltage	<0.02% Umax(300mV)	
	Current	<0.05% Imax(21mA)	<0.05% Imax(31.5mA)
	Power	<0.05% Pmax	
Load Regulation ^[2]	Voltage	<0.05% Umax(750mV) @Rated Voltage, <0.08% Umax(1200mV) @Rated Current	
	Current	<0.15% Imax(63mA)	<0.15% Imax(94.5mA)
	Power	<0.75% Pmax	
Rise Time	Voltage	<15ms (No Load) <80ms (Full Load)	
Drop Time	Voltage	<700ms (No Load) <20ms (Full Load)	
Transient Response Time ^[3]	Voltage	≤2ms/15V	
Display Resolution	Voltage	0.01V	
	Current	0.001A	
	Power	1W	
	Internal Resistance	0.001Ω	
Measurement Accuracy	Voltage	<0.1% Umax(1.5V)	
	Current	<0.2% Imax(84mA)	<0.2% Imax(126mA)
	Power	<0.5% Pmax	
	Internal Resistance	<0.4% Rmax	
Ripple ^[4]	Voltage	<2500mVpp, <600mVrms	
	Current	<22mArms	<33mArms
Remote Compensation	Voltage	3% Umax(45V)	
General			
Graphic Display	4.3" Color touch LCD		
Operation Key Feature	Soft keys, Numeric keys, Rotary knob, USB port for transfer and upgrading firmware		
Rack Mount Handles	Yes		
FAN	Temperature control		
Protection	OCP, OVP, OPP, OTP, HARD FAIL		

SP-3U/6U Series Wide-range High-power Programmable DC Power Supply

MODEL	SP1500VDC24000W	SP1500VDC36000W
Interface	RS232/RS485/USB(Standard), GPIB/LAN(Optional), CAN(Optional)	
Command Response Time	<3ms	
Analog Interface(Optional)		
Set Value Inputs	Analog input 0~5V/0~10V or 0~5kΩ/0~10kΩ to set 0~105% voltage, current and power	
Actual Value Output	Analog output 0~5V/0~10V to monitor the voltage and current.	
Accuracy U/I/P/R	<0.2% F.S	
Actual Output U/I	<0.2%	
Control Signals	DC ON/OFF, External control Enable/Disable	
Status Signals	CV, OVP, OT	
Sampling Rate of Input & Output	45Hz	
Galvanic Isolation to the Device	5250VDC	
Master/Slave Control		
Series Output	Not supported	
Parallel Output	MAX 16 units	
Environmental		
Operating Temperature	0~40°C	
Storage Temperature	-20~70°C	
Temperature Coefficient	100ppm/°C(voltage), 150ppm/°C(current)	
Relative Humidity	<95%RH(non-condensing)@35°C, <80%RH(non-condensing)@40°C	
Altitude	<2000m@40°C	
Fan Noise	48dB Idle; 80dB Max;	48dB Idle; 82dB Max;
Mechanical		
Dimensions(WxHxD)	423.0x265.0x745.0 mm	
Package Dimensions(WxHxD)	549.0x531.0x946.0 mm	
Unit Weight	75kg	97kg
Shipping Weight	101kg	123kg
Miscellaneous		
Over Voltage Category	II	
Protection Class	I	
Pollution Degree	2	
Insulation	AC input <->DC output, 5040VDC, AC input <-> PE, 2818VDC	

[1] For different input voltage standard option must be specified at the time of order as they are installed at the factory prior to shipment.

[2] Load transient from 0% to 100% of rated output.

[3] Test value at 100% voltage and 100% power.

[4] Vrms @ 300kHz, Vpp @ 20MHz, Arms @ 300kHz.

SP-3U/6U Series Wide-range High-power Programmable DC Power Supply

MODEL		SP2250VDC18000W
Input		
Voltage ^[1]		187~305VAC
		340~480VAC
Current ^[1]		3P208 L1,L2,L3-60A
		3P400 L1,L2,L3-30A
Frequency		45-65Hz
Connection		3ph, PE
Fuse (Internal) ^[1]		T50A*2pcs
		T25A*2pcs
Power Factor		>0.99
Input Power		3P208 20.1KVAmx, 3P400 19.5KVAmx
Efficiency ^[1]		3P208 ~92%@2250V, 3P208 ~90.5%@21A
		3P400 ~92.5%@2250V, 3P400 ~91.5%@21A
Output		
Voltage Range		2250V
Current Range		0~21A
Power Range		0~18000W
Max. Setup Range	Voltage	0~2362.5V(0-105%)
	Current	0~22.05A(0-105%)
	Power	0~18900W(0~105%)
	Internal Resistance	0~3214Ω
Accuracy	Voltage	<0.1% Umax/(2.25V)
	Current	<0.2% Imax(42mA)
	Power	<0.5%+90W
	Internal Resistance	R<2% Rmax, I<0.3% Imax
Line Regulation	Voltage	<0.02% Umax(675mV)
	Current	<0.05% Imax(10.5mA)
	Power	<0.05% Pmax
Load Regulation ^[2]	Voltage	<0.05% Umax(1125mV) @Rated Voltage, <0.08% Umax(1800mV) @Rated Current
	Current	<0.15% Imax(31.5mA)
	Power	<0.75% Pmax
Rise Time	Voltage	<15ms (No Load) <85ms (Full Load)
Drop Time	Voltage	<800ms (No Load) <20ms (Full Load)
Transient Response Time ^[3]	Voltage	≤3ms/22.5V
Display Resolution	Voltage	0.01V
	Current	0.001A
	Power	0.1W
	Internal Resistance	0.001Ω
Measurement Accuracy	Voltage	<0.1% Umax(2.25V)
	Current	<0.2% Imax(42mA)
	Power	<0.5% Pmax
	Internal Resistance	<0.4% Rmax
Ripple ^[4]	Voltage	<3200mVpp, <750mVrms
	Current	<11mA _{rms}
Remote Compensation	Voltage	3% Umax(67.5V)
General		
Graphic Display		4.3" Color touch LCD
Operation Key Feature		Soft keys, Numeric keys, Rotary knob, USB port for transfer and upgrading firmware
Rack Mount Handles		Yes
FAN		Temperature control
Protection		OCP, OVP, OPP, OTP, HARD FAIL

SP-3U/6U Series Wide-range High-power Programmable DC Power Supply

MODEL	SP2250VDC18000W
Interface	RS232/RS485/USB(Standard), GPIB/LAN(Optional), CAN(Optional)
Command Response Time	<3ms
Set Value Inputs	
Set Value Inputs	Analog input 0~5V/0~10V or 0~5kΩ/0~10kΩ to set 0~105% voltage, current and power
Actual Value Output	Analog output 0~5V/0~10V to monitor the voltage and current.
Accuracy U/I/P/R	<0.2% F.S
Actual Output U/I	<0.2%
Control Signals	DC ON/OFF, External control Enable/Disable
Status Signals	CV, OVP, OT
Sampling Rate of Input & Output	45Hz
Galvanic Isolation to the Device	6300VDC
Master/Slave Control	
Series Output	Not supported
Parallel Output	MAX 16 units
Environmental	
Operating Temperature	0~40°C
Storage Temperature	-20~70°C
Temperature Coefficient	100ppm/°C(voltage), 150ppm/°C(current)
Relative Humidity	<95%RH(non-condensing)@35°C, <80%RH(non-condensing)@40°C
Altitude	<2000m@40°C
Fan Noise	45dB Idle; 75dB Max;
Mechanical	
Dimensions(WxHxD)	423.0x133.0x718.0 mm
Package Dimensions(WxHxD)	665.0x347.0x1009.0 mm
Unit Weight	50kg
Shipping Weight	60kg
Miscellaneous	
Over Voltage Category	II
Protection Class	I
Pollution Degree	2
Insulation	AC input <->DC output, 5040VDC, AC input <-> PE, 2818VDC

[1] For different input voltage standard option must be specified at the time of order as they are installed at the factory prior to shipment.

[2] Load transient from 0% to 100% of rated output.

[3] Test value at 100% voltage and 100% power.

[4] Vrms @ 300kHz, Vpp @ 20MHz, Arms @ 300kHz.

Contents

Manual Type(SPSM):

SPSM80VDC54000W-3-18 -----	51	SPSM750VDC54000W-3-18 -----	61
SPSM80VDC90000W-3-24 -----	51	SPSM750VDC90000W-3-24 -----	61
SPSM80VDC108000W-3-30 -----	51	SPSM750VDC108000W-3-30 -----	61
SPSM80VDC144000W-3-36 -----	51	SPSM750VDC144000W-3-36 -----	61
SPSM80VDC180000W-3-42 -----	51	SPSM750VDC180000W-3-42 -----	61
SPSM165VDC36000W-3-18 -----	53	SPSM1000VDC36000W-3-18 -----	63
SPSM165VDC60000W-3-24 -----	53	SPSM1000VDC60000W-3-24 -----	63
SPSM165VDC72000W-3-30 -----	53	SPSM1000VDC72000W-3-30 -----	63
SPSM165VDC96000W-3-36 -----	53	SPSM1000VDC96000W-3-36 -----	63
SPSM165VDC120000W-3-42 -----	53	SPSM1000DC120000W-3-42 -----	63
SPSM250VDC54000W-3-18 -----	55	SPSM1500VDC54000W-3-18 -----	65
SPSM250VDC90000W-3-24 -----	55	SPSM1500VDC90000W-3-24 -----	65
SPSM250VDC108000W-3-30 -----	55	SPSM1500VDC108000W-3-30 -----	65
SPSM250VDC144000W-3-36 -----	55	SPSM1500VDC144000W-3-36 -----	65
SPSM250VDC180000W-3-42 -----	55	SPSM1500VDC180000W-3-42 -----	65
SPSM360VDC54000W-3-18 -----	57	SPSM2250VDC54000W-3-18 -----	67
SPSM360VDC90000W-3-24 -----	57	SPSM2250VDC90000W-3-24 -----	67
SPSM360VDC108000W-3-30 -----	57	SPSM2250VDC108000W-3-30 -----	67
SPSM360VDC144000W-3-36 -----	57	SPSM2250VDC144000W-3-36 -----	67
SPSM360VDC180000W-3-42 -----	57	SPSM2250VDC180000W-3-42 -----	67
SPSM500VDC54000W-3-18 -----	59		
SPSM500VDC90000W-3-24 -----	59		
SPSM500VDC108000W-3-30 -----	59		
SPSM500VDC144000W-3-36 -----	59		
SPSM500VDC180000W-3-42 -----	59		

Contents

Automatic Type(SPSA):

SPSA80VDC54000W-3-18 -----	69	SPSA750VDC54000W-3-18 -----	79
SPSA80VDC90000W-3-24 -----	69	SPSA750VDC90000W-3-24 -----	79
SPSA80VDC108000W-3-30 -----	69	SPSA750VDC108000W-3-30 -----	79
SPSA80VDC144000W-3-36 -----	69	SPSA750VDC144000W-3-36 -----	79
SPSA80VDC180000W-3-42 -----	69	SPSA750VDC180000W-3-42 -----	79
SPSA165VDC36000W-3-18 -----	71	SPSA1000VDC36000W-3-18 -----	81
SPSA165VDC60000W-3-24 -----	71	SPSA1000VDC60000W-3-24 -----	81
SPSA165VDC72000W-3-30 -----	71	SPSA1000VDC72000W-3-30 -----	81
SPSA165VDC96000W-3-36 -----	71	SPSA1000VDC96000W-3-36 -----	81
SPSA165VDC120000W-3-42 -----	71	SPSA1000DC120000W-3-42 -----	81
SPSA250VDC54000W-3-18 -----	73	SPSA1500VDC54000W-3-18 -----	83
SPSA250VDC90000W-3-24 -----	73	SPSA1500VDC90000W-3-24 -----	83
SPSA250VDC108000W-3-30 -----	73	SPSA1500VDC108000W-3-30 -----	83
SPSA250VDC144000W-3-36 -----	73	SPSA1500VDC144000W-3-36 -----	83
SPSA250VDC180000W-3-42 -----	73	SPSA1500VDC180000W-3-42 -----	83
SPSA360VDC54000W-3-18 -----	75	SPSA2250VDC54000W-3-18 -----	85
SPSA360VDC90000W-3-24 -----	75	SPSA2250VDC90000W-3-24 -----	85
SPSA360VDC108000W-3-30 -----	75	SPSA2250VDC108000W-3-30 -----	85
SPSA360VDC144000W-3-36 -----	75	SPSA2250VDC144000W-3-36 -----	85
SPSA360VDC180000W-3-42 -----	75	SPSA2250VDC180000W-3-42 -----	85
SPSA500VDC54000W-3-18 -----	77		
SPSA500VDC90000W-3-24 -----	77		
SPSA500VDC108000W-3-30 -----	77		
SPSA500VDC144000W-3-36 -----	77		
SPSA500VDC180000W-3-42 -----	77		

Selection List (SPSM) :

Model	Size	Voltage	Current	Power	Corresponding page
SPSM80VDC54000W-3-18	18U	80V	1800A	54000W	P51
SPSM80VDC90000W-3-24	24U		3000A	90000W	
SPSM80VDC108000W-3-30	30U		3000A	108000W	
SPSM80VDC144000W-3-36	36U		3000A	144000W	
SPSM80VDC180000W-3-42	42U		3000A	180000W	
SPSM165VDC36000W-3-18	18U	165V	540A	36000W	P53
SPSM165VDC60000W-3-24	24U		900A	60000W	
SPSM165VDC72000W-3-30	30U		1080A	72000W	
SPSM165VDC96000W-3-36	36U		1440A	96000W	
SPSM165VDC120000W-3-42	42U		1800A	120000W	
SPSM250VDC54000W-3-18	18U	250V	540A	54000W	P55
SPSM250VDC90000W-3-24	24U		900A	90000W	
SPSM250VDC108000W-3-30	30U		1080A	108000W	
SPSM250VDC144000W-3-36	36U		1440A	144000W	
SPSM250VDC180000W-3-42	42U		1800A	180000W	
SPSM360VDC54000W-3-18	18U	360V	382.5A	54000W	P57
SPSM360VDC90000W-3-24	24U		637.5A	90000W	
SPSM360VDC108000W-3-30	30U		765A	108000W	
SPSM360VDC144000W-3-36	36U		1020A	144000W	
SPSM360VDC180000W-3-42	42U		1275A	180000W	
SPSM500VDC54000W-3-18	18U	500V	288A	54000W	P59
SPSM500VDC90000W-3-24	24U		480A	90000W	
SPSM500VDC108000W-3-30	30U		576A	108000W	
SPSM500VDC144000W-3-36	36U		768A	144000W	
SPSM500VDC180000W-3-42	42U		960A	180000W	
SPSM750VDC54000W-3-18	18U	750V	189A	54000W	P61
SPSM750VDC90000W-3-24	24U		315A	90000W	
SPSM750VDC108000W-3-30	30U		378A	108000W	
SPSM750VDC144000W-3-36	36U		504A	144000W	
SPSM750VDC180000W-3-42	42U		630A	180000W	
SPSM1000VDC36000W-3-18	18U	1000V	96A	36000W	P63
SPSM1000VDC60000W-3-24	24U		160A	60000W	
SPSM1000VDC72000W-3-30	30U		192A	72000W	
SPSM1000VDC96000W-3-36	36U		256A	96000W	
SPSM1000VDC120000W-3-42	42U		320A	120000W	
SPSM1500VDC54000W-3-18	18U	1500V	96A	54000W	P65
SPSM1500VDC90000W-3-24	24U		160A	90000W	
SPSM1500VDC108000W-3-30	30U		192A	108000W	
SPSM1500VDC144000W-3-36	36U		256A	144000W	
SPSM1500VDC180000W-3-42	42U		320A	180000W	
SPSM2250VDC54000W-3-18	18U	2250V	63A	54000W	P67
SPSM2250VDC90000W-3-24	24U		105A	90000W	
SPSM2250VDC108000W-3-30	30U		126A	108000W	
SPSM2250VDC144000W-3-36	36U		168A	144000W	
SPSM2250VDC180000W-3-42	42U		210A	180000W	

*This formula is the standard cabinet for SP-3U model. It could extend to 576W via SP-6U model.

it is available to select cabinet with different specification according to exact situation. Detail please consults our area manager.

SPS-M/A Series DC Power Supply System

Selection List (SPSA) :

Model	Size	Voltage	Current	Power	Corresponding page
SPSA80VDC54000W-3-18	18U	80V	1800A	54000W	P69
SPSA80VDC90000W-3-24	24U		3000A	90000W	
SPSA80VDC108000W-3-30	30U		3000A	108000W	
SPSA80VDC144000W-3-36	36U		3000A	144000W	
SPSA80VDC180000W-3-42	42U		3000A	180000W	
SPSA165VDC36000W-3-18	18U	165V	540A	36000W	P71
SPSA165VDC60000W-3-24	24U		900A	60000W	
SPSA165VDC72000W-3-30	30U		1080A	72000W	
SPSA165VDC96000W-3-36	36U		1440A	96000W	
SPSA165VDC120000W-3-42	42U		1800A	120000W	
SPSA250VDC54000W-3-18	18U	250V	540A	54000W	P73
SPSA250VDC90000W-3-24	24U		900A	90000W	
SPSA250VDC108000W-3-30	30U		1080A	108000W	
SPSA250VDC144000W-3-36	36U		1440A	144000W	
SPSA250VDC180000W-3-42	42U		1800A	180000W	
SPSA360VDC54000W-3-18	18U	360V	382.5A	54000W	P75
SPSA360VDC90000W-3-24	24U		637.5A	90000W	
SPSA360VDC108000W-3-30	30U		765A	108000W	
SPSA360VDC144000W-3-36	36U		1020A	144000W	
SPSA360VDC180000W-3-42	42U		1275A	180000W	
SPSA500VDC54000W-3-18	18U	500V	288A	54000W	P77
SPSA500VDC90000W-3-24	24U		480A	90000W	
SPSA500VDC108000W-3-30	30U		576A	108000W	
SPSA500VDC144000W-3-36	36U		768A	144000W	
SPSA500VDC180000W-3-42	42U		960A	180000W	
SPSA750VDC54000W-3-18	18U	750V	189A	54000W	P79
SPSA750VDC90000W-3-24	24U		315A	90000W	
SPSA750VDC108000W-3-30	30U		378A	108000W	
SPSA750VDC144000W-3-36	36U		504A	144000W	
SPSA750VDC180000W-3-42	42U		630A	180000W	
SPSA1000VDC36000W-3-18	18U	1000V	96A	36000W	P81
SPSA1000VDC60000W-3-24	24U		160A	60000W	
SPSA1000VDC72000W-3-30	30U		192A	72000W	
SPSA1000VDC96000W-3-36	36U		256A	96000W	
SPSA1000VDC120000W-3-42	42U		320A	120000W	
SPSA1500VDC54000W-3-18	18U	1500V	96A	54000W	P83
SPSA1500VDC90000W-3-24	24U		160A	90000W	
SPSA1500VDC108000W-3-30	30U		192A	108000W	
SPSA1500VDC144000W-3-36	36U		256A	144000W	
SPSA1500VDC180000W-3-42	42U		320A	180000W	
SPSA2250VDC54000W-3-18	18U	2250V	63A	54000W	P85
SPSA2250VDC90000W-3-24	24U		105A	90000W	
SPSA2250VDC108000W-3-30	30U		126A	108000W	
SPSA2250VDC144000W-3-36	36U		168A	144000W	
SPSA2250VDC180000W-3-42	42U		210A	180000W	

*This formula is the standard cabinet for SP-3U model. It could extend to 576W via SP-6U model. It is available to select cabinet with different specification according to exact situation. Detail please consults our area manager.

CSP Specification:

Model	Corresponding page
CSP5	P87
CSP8	P87

SPS-M/A Series DC Power Supply System

MODEL		SPSM80VDC54000W-3-18	SPSM80VDC90000W-3-24	SPSM80VDC108000W-3-30	SPSM80VDC144000W-3-36	SPSM80DC180000W-3-42
Input						
Voltage ^[1]		3P208 187~305VAC				
		3P400 340~480VAC				
		ΔConnect				
Frequency		45-65Hz				
Phase		3 Phase, 3Wire+Groud, ΔConnect				
Power Factor		>0.99(Rate Input Voltage, Full Load)				
Max.Current ^[1]		3P208 L1,L2,L3-180A	3P208 L1,L2,L3-300A	3P208 L1,L2,L3-400A	3P208 L1,L2,L3-480A	3P208 L1,L2,L3-600A
		3P400 L1,L2,L3-90A	3P400 L1,L2,L3-150A	3P400 L1,L2,L3-180A	3P400 L1,L2,L3-240A	3P400 L1,L2,L3-300A
Input Power Max		67KVA	112KVA	135KVA	180KVA	225KVA
Efficiency ^[1]		3P208 ~90.5%@80V, 3P208 ~86.5%@1800A	3P208 ~90.5%@80V, 3P208 ~86.5%@3000A	3P208 ~90.5%@80V, 3P208 ~86.5%@3000A	3P208 ~90.5%@80V, 3P208 ~86.5%@3000A	3P208 ~90.5%@80V, 3P208 ~86.5%@3000A
		3P400 ~92.2%@80V, 3P400 ~87.8%@1800A	3P400 ~92.2%@80V, 3P400 ~87.8%@3000A	3P400 ~92.2%@80V, 3P400 ~87.8%@3000A	3P400 ~92.2%@80V, 3P400 ~87.8%@3000A	3P400 ~92.2%@80V, 3P400 ~87.8%@3000A
Output						
Output Voltage		0~80V				
Output Current ^[2]		0~1800A	0~3000A	0~3000A	0~3000A	0~3000A
Output Power		0~54000W	0~90000W	0~108000W	0~144000W	0~180000W
Ro		0~1.4Ω	0~0.8Ω	0~0.7Ω	0~0.5Ω	0~0.4Ω
Load Regulation ^[3]	Voltage	120mV	200mV	240mV	320mV	400mV
	Current	<0.15%Imax(2700mA)	<0.15%Imax(4500mA)	<0.15%Imax(4500mA)	<0.15%Imax(4500mA)	<0.15%Imax(4500mA)
Line Regulation	Voltage	<0.02%Umax(16mV)				
	Current	<0.05%Imax(900mA)	<0.05%Imax(1500mA)	<0.05%Imax(1500mA)	<0.05%Imax(1500mA)	<0.05%Imax(1500mA)
Voltage Setting	Range	0~84V(0~105%)				
	Resolution	0.001V (F.S. ≤ 999.999V)				
	Accuracy	<0.1% Umax(80mV)				
Current Setting	Range	0~1836A(0~102%)	0~3060A(0~102%)	0~3060A(0~102%)	0~3060A(0~102%)	0~3060A(0~102%)
	Resolution	0.001A(F.S. ≤ 999.999A), 0.01A(F.S. > 999.999A)				
	Accuracy	<0.2%Imax(3600mA)	<0.2%Imax(6000mA)	<0.2%Imax(6000mA)	<0.2%Imax(6000mA)	<0.2%Imax(6000mA)
Power Setting	Range	0~56700W(0~105%)	0~94500W(0~105%)	0~113400W(0~105%)	0~151200W(0~105%)	0~189000W(0~105%)
	Resolution	0.1W(F.S. ≤ 99.9KW), 1W(F.S. > 99.9KW)				
	Accuracy	<0.5%F.S.+ 270W	<0.5%F.S.+ 450W	<0.5%F.S.+ 540W	<0.5%F.S.+ 720W	<0.5%F.S.+ 900W
Ro Setting	Range	0~1.4Ω	0~0.8Ω	0~0.7Ω	0~0.5Ω	0~0.4Ω
	Resolution	0.0001Ω				
	Accuracy	R<2%Rmax,I<0.3%Imax				
Ripple ^[4]	Voltage	<480mVpp, <37.5mVrms	<800mVpp, <62.5mVrms	<960mVpp, <75mVrms	<1280mVpp, <100mVrms	<1600mVpp, <125mVrms
	Current	NA				
Measurement						
Voltage	Range	0~84V(0~105%)				
	Resolution	0.001V (F.S. ≤ 999.999V)				
	Accuracy	<0.1%Umax(80mV)				
Current	Range	0~1836A(0~102%)	0~3060A(0~102%)	0~3060A(0~102%)	0~3060A(0~102%)	0~3060A(0~102%)
	Resolution	0.001A(F.S. ≤ 999.999A), 0.01A(F.S. > 999.999A)				
	Accuracy	<0.2%Imax(3600mA)	<0.2%Imax(6000mA)	<0.2%Imax(6000mA)	<0.2%Imax(6000mA)	<0.2%Imax(6000mA)
Ro	Range	0~1.4Ω	0~0.8Ω	0~0.7Ω	0~0.5Ω	0~0.4Ω
	Resolution	0.0001Ω				
	Accuracy	R<2%Rmax,I<0.3%Imax				

SPS-M/A Series DC Power Supply System

MODEL		SPSM80VDC54000W-3-18	SPSM80VDC90000W-3-24	SPSM80VDC108000W-3-30	SPSM80VDC144000W-3-36	SPSM80DC180000W-3-42
Power	Range	0~56700W(0~105%)	0~94500W(0~105%)	0~113400W(0~105%)	0~151200W(0~105%)	0~189000W(0~105%)
	Resolution	0.1W(F.S. ≤ 99.9KW), 1W(F.S. > 99.9KW)				
	Accuracy	<0.5%F.S.+ 270W	<0.5%F.S.+450W	<0.5%F.S.+ 540W	<0.5%F.S.+ 720W	<0.5%F.S.+ 900W
Sink Function						
Input Voltage	0~80V					
Input Current	0~900A	0~1500A	0~1800A	0~2400A	0~3000A	
Input Power	0~3000W	0~5000W	0~6000W	0~8000W	0~10000W	
Min.Operating Voltage	3V@900	3V@1500	3V@1800	3V@2400	3V@3000	
CC Resolution	90mA	150mA	180mA	240mA	300mA	
CC Accuracy	<0.2%Imax(1800mA)	<0.2%Imax(3000mA)	<0.2%Imax(3600mA)	<0.2%Imax(4800mA)	<0.2%Imax(6000mA)	
CV Resolution	< 4mV					
CV Accuracy	<0.1%Umax(80mV)					
CP Resolution	4.5W	7.5W	9W	12W	15W	
CP Accuracy	<0.5%Pmax(15000mW)	<0.5%Pmax(25000mW)	<0.5%Pmax(30000mW)	<0.5%Pmax(40000mW)	<0.5%Pmax(50000mW)	
Slew Rate	0.01~2.5A/us					
Dynamic Mode	20~50ms					
General						
Graphic Display	4.3" Color touch LCD					
Operation Key Feature	Soft keys, Numeric keys, Rotary knob, USB port for transfer and upgrading firmware					
Rack Mount Handles	Yes					
FAN	Temperature control					
Protection	OCP, OVP, OPP, OTP, HARD FAIL					
Interface	RS232/RS485/USB(Standard), GPIB/LAN(Optional), CAN(Optional)					
Command Response Time	<3ms					
Emergency Stop Button	Yes					
Environmental						
Operating Temperature ^[2]	0°C~40°C					
Storage Temperature	-20°C~70°C					
Altitude	<2000m					
Relative Humidity	<95%RH(Non-condensing)@35°C, <80%RH(Non-condensing)@40°C					
Noise	50dB Min, 80dB Max	52dB Min, 82dB Max	53dB Min, 83dB Max	55dB Min, 85dB Max	56dB Min, 86dB Max	
Temperature Coefficient	100ppm/°C at Voltage, 300ppm/°C at Current					
Mechanical						
Dimensions(W x H x D)	560.0x790.0x920.0 mm	560.0x1056.0x920.0 mm	560.0x1324.0x920.0 mm	560.0x1590.0x920.0 mm	560.0x1857.0x920.0 mm	
Package Dimensions (W x H x D)	/	/	/	/	/	
Unit Weight	/	/	/	/	/	
Shipping Weight	/	/	/	/	/	
Regulatory Compliance						
CE Mark	Installation Overvoltage Category II; Class II equipment; indoor use only.					

[1] For different input voltage standard option must be specified at the time of order as they are installed at the factory prior to shipment.

[2] It is recommended that the output current is derated by 10% when the operation environment is higher than 30°C.

[3] Load transient from 0% to 100% of rated output.

[4] Vrms @ 300kHz, Vpp @ 20MHz, Arms @ 300kHz.

All specifications are subject to change without notice.

SPS-M/A Series DC Power Supply System

MODEL		SPSM165VDC36000W-3-18	SPSM165VDC60000W-3-24	SPSM165VDC72000W-3-30	SPSM165VDC96000W-3-36	SPSM165VDC120000W-3-42
Input						
Voltage ^[1]		3P208 187~305VAC				
		3P400 340~480VAC				
		ΔConnect				
Frequency		45-65Hz				
Phase		3 Phase, 3Wire+Groud, ΔConnect				
Power Factor		>0.99(Rate Input Voltage, Full Load)				
Max.Current ^[1]		3P208 L1,L2,L3-123A	3P208 L1,L2,L3-200A	3P208 L1,L2,L3-247A	3P208 L1,L2,L3-330A	3P208 L1,L2,L3-414A
		3P400 L1,L2,L3-67A	3P400 L1,L2,L3-100A	3P400 L1,L2,L3-132A	3P400 L1,L2,L3-175A	3P400 L1,L2,L3-221A
Input Power Max		45KVA	75KVA	90KVA	120KVA	150KVA
Efficiency ^[1]		3P208 ~90.5%@165V, 3P208 ~85%@540A	3P208 ~90.5%@165V, 3P208 ~85%@900A	3P208 ~90.5%@165V, 3P208 ~85%@1080A	3P208 ~90.5%@165V, 3P208 ~85%@1440A	3P208 ~90.5%@165V, 3P208 ~85%@1800A
		3P400 ~91.5%@165V, 3P400 ~85.5%@540A	3P400 ~91.5%@165V, 3P400 ~85.5%@900A	3P400 ~91.5%@165V, 3P400 ~85.5%@1080A	3P400 ~91.5%@165V, 3P400 ~85.5%@1440A	3P400 ~91.5%@165V, 3P400 ~85.5%@1800A
Output						
Output Voltage		0~165V				
Output Current ^[2]		0~540A	0~900A	0~1080A	0~1440A	0~1800A
Output Power		0~36000W	0~60000W	0~72000W	0~96000W	0~120000W
Ro		0~9.2Ω	0~5.5Ω	0~4.6Ω	0~3.5Ω	0~2.8Ω
Load Regulation ^[3]	Voltage	247.5mV	412.5mV	495mV	660mV	825mV
	Current	<0.15%Imax(810mA)	<0.15%Imax(1350mA)	<0.15%Imax(1620mA)	<0.15%Imax(2160mA)	<0.15%Imax(2700mA)
Line Regulation	Voltage	<0.02%Umax(33mV)				
	Current	<0.05%Imax(270mA)	<0.05%Imax(450mA)	<0.05%Imax(540mA)	<0.05%Imax(720mA)	<0.05%Imax(900mA)
Voltage Setting	Range	0~173.25V(0~105%)				
	Resolution	0.001V (F.S. ≤999.999V)				
	Accuracy	<0.1% Umax (165mV)				
Current Setting	Range	0~567A(0~105%)	0~945A(0~105%)	0~1134A(0~105%)	0~1512A(0~105%)	0~1890A(0~105%)
	Resolution	0.001A(F.S. ≤ 999.999A), 0.01A(F.S. > 999.999A)				
	Accuracy	<0.2%Imax(1080mA)	<0.2%Imax(1800mA)	<0.2%Imax(2160mA)	<0.2%Imax(2880mA)	<0.2%Imax(3600mA)
Power Setting	Range	0~37800W(0~105%)	0~63000W(0~105%)	0~75600W(0~105%)	0~100800W(0~105%)	0~126000W(0~105%)
	Resolution	0.1W(F.S.≤ 99.9KW),1W(F.S. > 99.9KW)				
	Accuracy	<0.5%F.S.+ 270W	<0.5%F.S.+ 450W	<0.5%F.S.+ 540W	<0.5%F.S.+ 720W	<0.5%F.S.+ 900W
Ro Setting	Range	0~9.2Ω	0~5.5Ω	0~4.6Ω	0~3.5Ω	0~2.8Ω
	Resolution	0.0001Ω				
	Accuracy	R<2%Rmax,I<0.3%Imax				
Ripple ^[4]	Voltage	<870mVpp, <75mVrms	<1350mVpp, <125mVrms	<1740mVpp, <150mVrms	<2320mVpp, <200mVrms	<2900mVpp, <250mVrms
	Current	NA				
Measurement						
Voltage	Range	0~173.25V(0~105%)				
	Resolution	0.001V F.S. ≤999.999V				
	Accuracy	<0.1% Umax (165mV)				
Current	Range	0~567A(0~105%)	0~945A(0~105%)	0~1134A(0~105%)	0~1512A(0~105%)	0~1890A(0~105%)
	Resolution	0.001A(F.S. ≤ 999.999A), 0.01A(F.S. > 999.999A)				
	Accuracy	<0.2%Imax(1080mA)	<0.2%Imax(1800mA)	<0.2%Imax(2160mA)	<0.2%Imax(2880mA)	<0.2%Imax(3600mA)
Ro	Range	0~9.2Ω	0~5.5Ω	0~4.6Ω	0~3.5Ω	0~2.8Ω
	Resolution	0.0001Ω				
	Accuracy	R<2%Rmax,I<0.3%Imax				

SPS-M/A Series DC Power Supply System

MODEL		SPSM165VDC36000W-3-18	SPSM165VDC60000W-3-24	SPSM165VDC72000W-3-30	SPSM165VDC96000W-3-36	SPSM165VDC120000W-3-42
Power	Range	0~37800W(0~105%)	0~63000W((0~105%)	0~75600W(0~105%)	0~100800W(0~105%)	0~126000W(0~105%)
	Resolution	0.1W(F.S.≤ 99.9KW), 1W(F.S. > 99.9KW)				
	Accuracy	<0.5%F.S.+ 270W	<0.5%F.S.+ 450W	<0.5%F.S.+ 540W	<0.5%F.S.+ 720W	<0.5%F.S.+ 900W
General						
Graphic Display	4.3" Color touch LCD					
Operation Key Feature	Soft keys, Numeric keys, Rotary knob, USB port for transfer and upgrading firmware					
Rack Mount Handles	Yes					
FAN	Temperature control					
Protection	OCP, OVP, OPP, OTP, HARD FAIL					
Interface	RS232/RS485/USB(Standard), GPIB/LAN(Optional), CAN(Optional)					
Command Response Time	<3ms					
Emergency Stop Button	Yes					
Environmental						
Operating Temperature ^[1]	0°C~40°C					
Storage Temperature	-20°C~70°C					
Altitude	<2000m					
Relative Humidity	<95%RH(Non-condensing)@35°C, <80%RH(Non-condensing)@40°C					
Noise	50dB Min, 78dB Max	52dB Min, 80dB Max	53dB Min, 81dB Max	55dB Min, 83dB Max	56dB Min, 84dB Max	
Temperature Coefficient	100ppm/°C at Voltage, 300ppm/°C at Current					
Mechanical						
Dimensions(W x H x D)	560.0x790.0x920.0 mm	560.0x1056.0x920.0 mm	560.0x1324.0x920.0 mm	560.0x1590.0x920.0 mm	560.0x1857.0x920.0 mm	
Package Dimensions (W x H x D)	/	/	/	/	/	
Unit Weight	/	/	/	/	/	
Shipping Weight	/	/	/	/	/	
Regulatory Compliance						
CE Mark	Installation Overvoltage Category II; Class II equipment; indoor use only.					

[1] For different input voltage standard option must be specified at the time of order as they are installed at the factory prior to shipment.

[2] It is recommended that the output current is derated by 10% when the operation environment is higher than 30°C.

[3] Load transient from 0% to 100% of rated output.

[4] Vrms @ 300kHz, Vpp @ 20MHz, Arms @ 300kHz.

All specifications are subject to change without notice.

SPS-M/A Series DC Power Supply System

MODEL	SPSM250VDC54000W-3-18	SPSM250VDC90000W-3-24	SPSM250VDC108000W-3-30	SPSM250VDC144000W-3-36	SPSM250VDC180000W-3-42	
Input						
Voltage ^[1]	3P208 187~305VAC					
	3P400 340~480VAC					
	ΔConnect					
Frequency	45-65Hz					
Phase	3 Phase, 3Wire+Groud, ΔConnect					
Power Factor	>0.99(Rate Input Voltage, Full Load)					
Max.Current ^[1]	3P208 L1,L2,L3-180A	3P208 L1, L2,L3-300A	3P208 L1,L2,L3-400A	3P208 L1,L2,L3-480A	3P208 L1,L2,L3-600A	
	3P400 L1,L2,L3-90A	3P400 L1,L2,L3-150A	3P400 L1,L2,L3-180A	3P400 L1,L2,L3-240A	3P400 L1,L2,L3-300A	
Input Power Max	67KVA	112KVA	135KVA	180KVA	225KVA	
Efficiency ^[1]	3P208 ~90.5%@250V, 3P208 ~85%@540A	3P208 ~90.5%@250V, 3P208 ~85%@900A	3P208 ~90.5%@250V, 3P208 ~85%@1080A	3P208 ~90.5%@250V, 3P208 ~85%@1440A	3P208 ~90.5%@250V, 3P208 ~85%@1800A	
	3P400 ~91.5%@250V, 3P400 ~85.5%@540A	3P400 ~91.5%@250V, 3P400 ~85.5%@900A	3P400 ~91.5%@250V, 3P400 ~85.5%@1080A	3P400 ~91.5%@250V, 3P400 ~85.5%@1440A	3P400 ~91.5%@250V, 3P400 ~85.5%@1800A	
Output						
Output Voltage	0~250V					
Output Current ^[2]	0~540A	0~900A	0~1080A	0~1440A	0~1800A	
Output Power	0~54000W	0~90000W	0~108000W	0~144000W	0~180000W	
Ro	0~13.9Ω	0~8.3Ω	0~7.0Ω	0~5.2Ω	0~4.2Ω	
Load Regulation ^[3]	Voltage	375mV	625mV	750mV	1000mV	1250mV
	Current	<0.15%Imax(810mA)	<0.15%Imax(1350mA)	<0.15%Imax(1620mA)	<0.15%Imax(2160mA)	<0.15%Imax(2700mA)
Line Regulation	Voltage	<0.02%Umax(50mV)				
	Current	<0.05%Imax(270mA)	<0.05%Imax(450mA)	<0.05%Imax(540mA)	<0.05%Imax(720mA)	<0.05%Imax(900mA)
Voltage Setting	Range	0~262.5V(0~105%)				
	Resolution	0.001V (F.S. ≤999.999V)				
	Accuracy	<0.1% Umax(250mV)				
Current Setting	Range	0~567A(0~105%)	0~945A(0~105%)	0~1134A(0~105%)	0~1512A(0~105%)	0~1890A(0~105%)
	Resolution	0.001A(F.S. ≤ 999.999A), 0.01A(F.S. > 999.999A)				
	Accuracy	<0.2%Imax(1080mA)	<0.2%Imax(1800mA)	<0.2%Imax(2160mA)	<0.2%Imax(2880mA)	<0.2%Imax(3600mA)
Power Setting	Range	0~56700W(0~105%)	0~94500W(0~105%)	0~113400W(0~105%)	0~151200W(0~105%)	0~189000W(0~105%)
	Resolution	0.1W(F.S. ≤ 99.9KW), 1W(F.S. > 99.9KW)				
	Accuracy	<0.5%F.S.+ 270W	<0.5%F.S.+ 450W	<0.5%F.S.+ 540W	<0.5%F.S.+ 720W	<0.5%F.S.+ 900W
Ro Setting	Range	0~13.9Ω	0~8.3Ω	0~7.0Ω	0~5.2Ω	0~4.2Ω
	Resolution	0.0001Ω				
	Accuracy	R<2%Rmax,I<0.3%Imax				
Ripple ^[4]	Voltage	<825mVpp, <75mVrms	<2125mVpp, <187.5mVrms	<1650mVpp, <150mVrms	<2200mVpp, <200mVrms	<2750mVpp, <250mVrms
	Current	NA				
Measurement						
Voltage	Range	0~262.5V(0~105%)				
	Resolution	0.001V (F.S. ≤999.999V)				
	Accuracy	<0.1% Umax (250mV)				
Current	Range	0~567A(0~105%)	0~945A(0~105%)	0~1134A(0~105%)	0~1512A(0~105%)	0~1890A(0~105%)
	Resolution	0.001A(F.S. ≤ 999.999A), 0.01A(F.S. > 999.999A)				
	Accuracy	<0.2%Imax(1080mA)	<0.2%Imax(1800mA)	<0.2%Imax(2160mA)	<0.2%Imax(2880mA)	<0.2%Imax(3600mA)
Ro	Range	0~13.9Ω	0~8.3Ω	0~7.0Ω	0~5.2Ω	0~4.2Ω
	Resolution	0.0001Ω				
	Accuracy	R<2%Rmax,I<0.3%Imax				

SPS-M/A Series DC Power Supply System

MODEL		SPSM250VDC54000W-3-18	SPSM250VDC90000W-3-24	SPSM250VDC108000W-3-30	SPSM250VDC144000W-3-36	SPSM250VDC180000W-3-42
Power	Range	0~56700W(0~105%)	0~94500W(0~105%)	0~113400W(0~105%)	0~151200W(0~105%)	0~189000W(0~105%)
	Resolution	0.1W(F.S. ≤ 99.9KW), 1W(F.S. > 99.9KW)				
	Accuracy	<0.5%F.S.+ 270W	<0.5%F.S.+ 450W	<0.5%F.S.+ 540W	<0.5%F.S.+ 720W	<0.5%F.S.+ 900W
General						
Graphic Display	4.3" Color touch LCD					
Operation Key Feature	Soft keys, Numeric keys, Rotary knob, USB port for transfer and upgrading firmware					
Rack Mount Handles	Yes					
FAN	Temperature control					
Protection	OCP, OVP, OPP, OTP, HARD FAIL					
Interface	RS232/RS485/USB(Standard), GPIB/LAN(Optional), CAN(Optional)					
Command Response Time	<3ms					
Emergency Stop Button	Yes					
Environmental						
Operating Temperature ^[1]	0°C~40°C					
Storage Temperature	-20°C~70°C					
Altitude	<2000m					
Relative Humidity	<95%RH(Non-condensing)@35°C, <80%RH(Non-condensing)@40°C					
Noise	50dB Min, 80dB Max	52dB Min, 82dB Max	53dB Min, 83dB Max	55dB Min, 85dB Max	56dB Min, 86dB Max	
Temperature Coefficient	100ppm/°C at Voltage, 300ppm/°C at Current					
Mechanical						
Dimensions(W x H x D)	560.0x790.0x920.0 mm	560.0x1056.0x920.0 mm	560.0x1324.0x920.0 mm	560.0x1590.0x920.0 mm	560.0x1857.0x920.0 mm	
Package Dimensions (W x H x D)	/	/	/	/	/	/
Unit Weight	/	/	/	/	/	/
Shipping Weight	/	/	/	/	/	/
Regulatory Compliance						
CE Mark	Installation Overvoltage Category II; Class II equipment; indoor use only.					

[1] For different input voltage standard option must be specified at the time of order as they are installed at the factory prior to shipment.

[2] It is recommended that the output current is derated by 10% when the operation environment is higher than 30°C.

[3] Load transient from 0% to 100% of rated output.

[4] Vrms @ 300kHz, Vpp @ 20MHz, Arms @ 300kHz.

All specifications are subject to change without notice.

SPS-M/A Series DC Power Supply System

MODEL		SPSM360VDC54000W-3-18	SPSM360VDC90000W-3-24	SPSM360VDC108000W-3-30	SPSM360VDC144000W-3-36	SPSM360VDC180000W-3-42
Input						
Voltage ^[1]		3P208 187~305VAC				
		3P400 340~480VAC				
		ΔConnect				
Frequency		45-65Hz				
Phase		3 Phase, 3Wire+Groud, ΔConnect				
Power Factor		>0.99(Rate Input Voltage, Full Load)				
Max.Current ^[1]		3P208 L1,L2,L3-180A	3P208 L1,L2,L3-300A	3P208 L1,L2,L3-400A	3P208 L1,L2,L3-480A	3P208 L1,L2,L3-600A
		3P400 L1,L2,L3-90A	3P400 L1,L2,L3-150A	3P400 L1,L2,L3-180A	3P400 L1,L2,L3-240A	3P400 L1,L2,L3-300A
Input Power Max		67KVA	112KVA	135KVA	180KVA	225KVA
Efficiency ^[1]		3P208 ~92.2%@360V, 3P208 ~90.5%@382.5A	3P208 ~92.2%@360V, 3P208 ~90.5%@637.5A	3P208 ~92.2%@360V, 3P208 ~90.5%@765A	3P208 ~92.2%@360V, 3P208 ~90.5%@1020A	3P208 ~92.2%@360V, 3P208 ~90.5%@1275A
		3P400 ~92.5%@360V, 3P400 ~91%@382.5A	3P400 ~92.5%@360V, 3P400 ~91%@637.5A	3P400 ~92.5%@360V, 3P400 ~91%@765A	3P400 ~92.5%@360V, 3P400 ~91%@1020A	3P400 ~92.5%@360V, 3P400 ~91%@1275A
Output						
Output Voltage		0~360V				
Output Current		0~382.5A	0~637.5A	0~765A	0~1020A	0~1275A
Output Power		0~54000W	0~90000W	0~108000W	0~144000W	0~180000W
Ro		0~28.2Ω	0~16.9Ω	0~14.1Ω	0~10.6Ω	0~8.5Ω
Load Regulation ^[2]	Voltage	540mV	900mV	1080mV	1440mV	1800mV
	Current	<0.15%Imax(574mA)	<0.15%Imax(956mA)	<0.15%Imax(1147mA)	<0.15%Imax(1530mA)	<0.15%Imax(1912mA)
Line Regulation	Voltage	<0.02%Umax(72mV)				
	Current	<0.05%Imax(191mA)	<0.05%Imax(318mA)	<0.05%Imax(382mA)	<0.05%Imax(510mA)	<0.05%Imax(637mA)
Voltage Setting	Range	0~378V(0~105%)				
	Resolution	0.001V (F.S. ≤999.999V)				
	Accuracy	<0.1% Umax (360mV)				
Current Setting	Range	0~401.6A(0~105%)	0~669.3A(0~105%)	0~803.2A(0~105%)	0~1071A(0~105%)	0~1338.7A(0~105%)
	Resolution	0.001A(F.S. ≤ 999.999A), 0.01A(F.S. > 999.999A)				
	Accuracy	<0.2%Imax (765mA)	<0.2%Imax(1275mA)	<0.2%Imax(1530mA)	<0.2%Imax(2040mA)	<0.2%Imax(2550mA)
Power Setting	Range	0~56700W(0~105%)	0~94500W(0~105%)	0~113400W(0~105%)	0~151200W(0~105%)	0~189000W(0~105%)
	Resolution	0.1W(F.S. ≤ 99.9KW), 1W(F.S. > 99.9KW)				
	Accuracy	<0.5%F.S.+ 270W	<0.5%F.S.+ 450W	<0.5%F.S.+ 540W	<0.5%F.S.+ 720W	<0.5%F.S.+ 900W
Ro Setting	Range	0~28.2Ω	0~16.9Ω	0~14.1Ω	0~10.5Ω	0~8.4Ω
	Resolution	0.0001Ω				
	Accuracy	R<2%Rmax,I<0.3%Imax				
Ripple ^[3]	Voltage	<480mVpp, <82.5mVrms	<800mVpp, <137.5mVrms	<960mVpp, <165mVrms	<1280mVpp, <220mVrms	<1600mVpp, <275mVrms
	Current	NA				
Measurement						
Voltage	Range	0~378V(0~105%)				
	Resolution	0.001V (F.S. ≤999.999V)				
	Accuracy	<0.1%Umax(360mV)				
Current	Range	0~401.6A(0~105%)	0~669.3A(0~105%)	0~803.2A(0~105%)	0~1071A(0~105%)	0~1338.7A(0~105%)
	Resolution	0.001A(F.S. ≤ 999.999A), 0.01A(F.S. > 999.999A)				
	Accuracy	<0.2%Imax(765mA)	<0.2%Imax(1275mA)	<0.2%Imax(1530mA)	<0.2%Imax(2040mA)	<0.2%Imax(2550mA)
Ro	Range	0~28.2Ω	0~16.9Ω	0~14.1Ω	0~10.5Ω	0~8.4Ω
	Resolution	0.0001Ω				
	Accuracy	R<2%Rmax,I<0.3%Imax				

SPS-M/A Series DC Power Supply System

MODEL		SPSM360VDC54000W-3-18	SPSM360VDC90000W-3-24	SPSM360VDC108000W-3-30	SPSM360VDC144000W-3-36	SPSM360VDC180000W-3-42
Power	Range	0~56700W(0~105%)	0~94500W(0~105%)	0~113400W(0~105%)	0~151200W(0~105%)	0~189000W(0~105%)
	Resolution	0.1W(F.S. ≤ 99.9KW), 1W(F.S. > 99.9KW)				
	Accuracy	<0.5%F.S.+ 270W	<0.5%F.S.+ 450W	<0.5%F.S.+ 540W	<0.5%F.S.+ 720W	<0.5%F.S.+ 900W
Sink Function						
Input Voltage	0~360V					
Input Current	0~225A	0~375A	0~450A	0~600A	0~750A	
Input Power	0~2925W	0~4875W	0~5850W	0~7800W	0~9750W	
Min.Operating Voltage	8V@120A	8V@200A	8V@240A	8V@320A	8V@400A	
CC Resolution	18mA	30mA	36mA	48mA	60mA	
CC Accuracy	<0.2%Imax(450mA)	<0.2%Imax(750mA)	<0.2%Imax(900mA)	<0.2%Imax(1200mA)	<0.2%Imax(1500mA)	
CV Resolution	< 4mV					
CV Accuracy	<0.1%Umax(360mV)					
CP Resolution	4.5W	7.5W	9W	12W	15W	
CP Accuracy	<0.5%Pmax(14625mW)	<0.5%Pmax(24375mW)	<0.5%Pmax(29250mW)	<0.5%Pmax(39000mW)	<0.5%Pmax(48750mW)	
Slew Rate	0.01~2.5A/us					
Dynamic Mode	20~50ms					
General						
Graphic Display	4.3" Color touch LCD					
Operation Key Feature	Soft keys, Numeric keys, Rotary knob, USB port for transfer and upgrading firmware					
Rack Mount Handles	Yes					
FAN	Temperature control					
Protection	OCP, OVP, OPP, OTP, HARD FAIL					
Interface	RS232/RS485/USB(Standard), GPIB/LAN(Optional), CAN(Optional)					
Command Response Time	<3ms					
Emergency Stop Button	Yes					
Environmental						
Operating Temperature	0°C~40°C					
Storage Temperature	-20°C~70°C					
Altitude	<2000m					
Relative Humidity	<95%RH(Non-condensing)@35°C, <80%RH(Non-condensing)@40°C					
Noise	50dB Min, 80dB Max	52dB Min, 82dB Max	53dB Min, 83dB Max	55dB Min, 85dB Max	56dB Min, 86dB Max	
Temperature Coefficient	100ppm/°C at Voltage, 300ppm/°C at Current					
Mechanical						
Dimensions(W x H x D)	560.0x790.0x920.0 mm	560.0x1056.0x920.0 mm	560.0x1324.0x920.0 mm	560.0x1590.0x920.0 mm	560.0x1857.0x920.0 mm	
Package Dimensions (W x H x D)	/	/	/	/	/	
Unit Weight	/	/	/	/	/	
Shipping Weight	/	/	/	/	/	
Regulatory Compliance						
CE Mark	Installation Overvoltage Category II; Class II equipment; indoor use only.					

[1] For different input voltage standard option must be specified at the time of order as they are installed at the factory prior to shipment.

[2] Load transient from 0% to 100% of rated output.

[3] Vrms @ 300kHz, Vpp @ 20MHz, Arms @ 300kHz.

All specifications are subject to change without notice.

SPS-M/A Series DC Power Supply System

MODEL		SPSM500VDC54000W-3-18	SPSM500VDC90000W-3-24	SPSM500VDC108000W-3-30	SPSM500VDC144000W-3-36	SPSM500VDC180000W-3-42
Input						
Voltage ^[1]		3P208 187~305VAC				
		3P400 340~480VAC				
		ΔConnect				
Frequency		45-65Hz				
Phase		3 Phase, 3Wire+Groud, ΔConnect				
Power Factor		>0.99(Rate Input Voltage, Full Load)				
Max.Current ^[1]		3P208 L1,L2,L3-180A	3P208 L1,L2,L3-300A	3P208 L1,L2,L3-400A	3P208 L1,L2,L3-480A	3P208 L1,L2,L3-600A
		3P400 L1,L2,L3-90A	3P400 L1,L2,L3-150A	3P400 L1,L2,L3-180A	3P400 L1,L2,L3-240A	3P400 L1,L2,L3-300A
Input Power Max		67KVA	112KVA	135KVA	180KVA	225KVA
Efficiency ^[1]		3P208 ~92.5%@500V, 3P208 ~91%@288A	3P208 ~92.5%@500V, 3P208 ~91%@480A	3P208 ~92.5%@500V, 3P208 ~91%@576A	3P208 ~92.5%@500V, 3P208 ~91%@768A	3P208 ~92.5%@500V, 3P208 ~91%@960A
		3P400 ~94%@500V, 3P400 ~92.5%@288A	3P400 ~94%@500V, 3P400 ~92.5%@480A	3P400 ~94%@500V, 3P400 ~92.5%@576A	3P400 ~94%@500V, 3P400 ~92.5%@768A	3P400 ~94%@500V, 3P400 ~92.5%@960A
Output						
Output Voltage		0~500V				
Output Current		0~288A	0~480A	0~576A	0~768A	0~960A
Output Power		0~54000W	0~90000W	0~108000W	0~144000W	0~180000W
Ro		0~53Ω	0~31Ω	0~27Ω	0~20Ω	0~16Ω
Load Regulation ^[2]	Voltage	750mV	1250mV	1500mV	2000mV	2500mV
	Current	<0.15%Imax(432mA)	<0.15%Imax(720mA)	<0.15%Imax(864mA)	<0.15%Imax(1152mA)	<0.15%Imax(1440mA)
Line Regulation	Voltage	<0.02%Umax(100mV)				
	Current	<0.05%Imax(144mA)	<0.05%Imax(240mA)	<0.05%Imax(288mA)	<0.05%Imax(384mA)	<0.05%Imax(480mA)
Voltage Setting	Range	0~525V(0~105%)				
	Resolution	0.001V (F.S. ≤999.999V), 0.01V(F.S. > 999.999V)				
	Accuracy	<0.1% Umax (500mV)				
Current Setting	Range	0~302.4A(0~105%)	0~504A(0~105%)	0~604.80A(0~105%)	0~806.4A(0~105%)	0~1008A(0~105%)
	Resolution	0.001A(F.S. ≤ 999.999A), 0.01A(F.S. > 999.999A)				
	Accuracy	<0.2%Imax (576mA)	<0.2%Imax(960mA)	<0.2%Imax(1152mA)	<0.2%Imax(1536mA)	<0.2%Imax(1920mA)
Power Setting	Range	0~56700W(0~105%)	0~94500W(0~105%)	0~113400W(0~105%)	0~151200W(0~105%)	0~189000W(0~105%)
	Resolution	0.1W(F.S. ≤ 99.9KW), 1W(F.S. > 99.9KW)				
	Accuracy	<0.5%F.S.+ 270W	<0.5%F.S.+ 450W	<0.5%F.S.+ 540W	<0.5%F.S.+ 720W	<0.5%F.S.+ 900W
Ro Setting	Range	0~53Ω	0~31Ω	0~27Ω	0~20Ω	0~16Ω
	Resolution	0.0001Ω				
	Accuracy	R<2%Rmax,I<0.3%Imax				
Ripple ^[3]	Voltage	<975mVpp, <240mVrms	<1625mVpp, <400mVrms	<1950mVpp, <480mVrms	<2600mVpp, <640mVrms	<3250mVpp, <800mVrms
	Current	NA				
Measurement						
Voltage	Range	0~525V(0~105%)				
	Resolution	0.001V (F.S. ≤999.999V), 0.01V(F.S. > 999.999V)				
	Accuracy	<0.1%Umax(500mV)				
Current	Range	0~302.4A(0~105%)	0~504A(0~105%)	0~604.80A(0~105%)	0~806.4A(0~105%)	0~1008A(0~105%)
	Resolution	0.001A(F.S. ≤ 999.999A), 0.01A(F.S. > 999.999A)				
	Accuracy	<0.2%Imax(576mA)	<0.2%Imax(960mA)	<0.2%Imax(1152mA)	<0.2%Imax(1536mA)	<0.2%Imax(1920mA)
Ro	Range	0~53Ω	0~31Ω	0~27Ω	0~20Ω	0~16Ω
	Resolution	0.0001Ω				
	Accuracy	R<2%Rmax,I<0.3%Imax				

SPS-M/A Series DC Power Supply System

MODEL		SPSM500VDC54000W-3-18	SPSM500VDC90000W-3-24	SPSM500VDC108000W-3-30	SPSM500VDC144000W-3-36	SPSM500VDC180000W-3-42
Power	Range	0~56700W(0~105%)	0~94500W(0~105%)	0~113400W(0~105%)	0~151200W(0~105%)	0~189000W(0~105%)
	Resolution	0.1W(F.S. ≤ 99.9KW), 1W(F.S. > 99.9KW)				
	Accuracy	<0.5%F.S.+ 270W	<0.5%F.S.+ 450W	<0.5%F.S.+ 540W	<0.5%F.S.+ 720W	<0.5%F.S.+ 900W
Sink Function						
Input Voltage	0~500V					
Input Current	0~120A	0~200A	0~240A	0~320A	0~400A	
Input Power	0~2925W	0~4875W	0~5850W	0~7800W	0~9750W	
Min.Operating Voltage	8V@120A	8V@200A	8V@240A	8V@320A	8V@400A	
CC Resolution	9mA	15mA	18mA	24mA	30mA	
CC Accuracy	<0.2%Imax(240mA)	<0.2%Imax(400mA)	<0.2%Imax(480mA)	<0.2%Imax(640mA)	<0.2%Imax(800mA)	
CV Resolution	< 4mV					
CV Accuracy	<0.1%Umax(500mV)					
CP Resolution	4.5W	7.5W	9W	12W	15W	
CP Accuracy	<0.5%Pmax(14625mW)	<0.5%Pmax(24375mW)	<0.5%Pmax(29250mW)	<0.5%Pmax(39000mW)	<0.5%Pmax(48750mW)	
Slew Rate	0.01~2.5A/us					
Dynamic Mode	20~50ms					
General						
Graphic Display	4.3" Color touch LCD					
Operation Key Feature	Soft keys, Numeric keys, Rotary knob, USB port for transfer and upgrading firmware					
Rack Mount Handles	Yes					
FAN	Temperature control					
Protection	OCP, OVP, OPP, OTP, HARD FAIL					
Interface	RS232/RS485/USB(Standard), GPIB/LAN(Optional), CAN(Optional)					
Command Response Time	<3ms					
Emergency Stop Button	Yes					
Environmental						
Operating Temperature	0°C~40°C					
Storage Temperature	-20°C~70°C					
Altitude	<2000m					
Relative Humidity	<95%RH(Non-condensing)@35°C, <80%RH(Non-condensing)@40°C					
Noise	50dB Min, 80dB Max	52dB Min, 82dB Max	53dB Min, 83dB Max	55dB Min, 85dB Max	56dB Min, 86dB Max	
Temperature Coefficient	100ppm/°C at Voltage, 300ppm/°C at Current					
Mechanical						
Dimensions(W x H x D)	560.0x790.0x920.0 mm	560.0x1056.0x920.0 mm	560.0x1324.0x920.0 mm	560.0x1590.0x920.0 mm	560.0x1857.0x920.0 mm	
Package Dimensions (W x H x D)	/	/	/	/	/	
Unit Weight	/	/	/	/	/	
Shipping Weight	/	/	/	/	/	
Regulatory Compliance						
CE Mark	Installation Overvoltage Category II; Class II equipment; indoor use only.					

[1] For different input voltage standard option must be specified at the time of order as they are installed at the factory prior to shipment.

[2] Load transient from 0% to 100% of rated output.

[3] Vrms @ 300kHz, Vpp @ 20MHz, Arms @ 300kHz.

All specifications are subject to change without notice.

SPS-M/A Series DC Power Supply System

MODEL		SPSM750VDC54000W-3-18	SPSM750VDC90000W-3-24	SPSM750VDC108000W-3-30	SPSM750VDC144000W-3-36	SPSM750VDC180000W-3-42
Input						
Voltage ^[1]		3P208 187~305VAC				
		3P400 340~480VAC				
		ΔConnect				
Frequency		45-65Hz				
Phase		3 Phase, 3Wire+Groud, ΔConnect				
Power Factor		>0.99(Rate Input Voltage, Full Load)				
Max.Current ^[1]		3P208 L1,L2,L3-180A	3P208 L1,L2,L3-300A	3P208 L1,L2,L3-400A	3P208 L1,L2,L3-480A	3P208 L1,L2,L3-600A
		3P400 L1,L2,L3-90A	3P400 L1,L2,L3-150A	3P400 L1,L2,L3-180A	3P400 L1,L2,L3-240A	3P400 L1,L2,L3-300A
Input Power Max		67KVA	112KVA	135KVA	180KVA	225KVA
Efficiency ^[1]		3P208 ~92.5%@750V, 3P208 ~91%@189A	3P208 ~92.5%@750V, 3P208 ~91%@315A	3P208 ~92.5%@750V, 3P208 ~91%@378A	3P208 ~92.5%@750V, 3P208 ~91%@504A	3P208 ~92.5%@750V, 3P208 ~91%@630A
		3P400 ~92.7%@750V, 3P400 ~92%@189A	3P400 ~92.7%@750V, 3P400 ~92%@315A	3P400 ~92.7%@750V, 3P400 ~92%@378A	3P400 ~92.7%@750V, 3P400 ~92%@504A	3P400 ~92.7%@750V, 3P400 ~92%@630A
Output						
Output Voltage		0~750V				
Output Current		0~189A	0~315A	0~378A	0~504A	0~630A
Output Power		0~54000W	0~90000W	0~108000W	0~144000W	0~180000W
Ro		0~120Ω	0~71Ω	0~60Ω	0~45Ω	0~36Ω
Load Regulation ^[2]	Voltage	1110mV	1850mV	2220mV	2960mV	3700mV
	Current	<0.15%Imax(283.5mA)	<0.15%Imax(472.5mA)	<0.15%Imax(567mA)	<0.15%Imax(756mA)	<0.15%Imax(945mA)
Line Regulation	Voltage	<0.02%Umax(150mV)				
	Current	<0.05%Imax(94.5mA)	<0.05%Imax(157.5mA)	<0.05%Imax(189mA)	<0.05%Imax(252mA)	<0.05%Imax(315mA)
Voltage Setting	Range	0~787.5V(0~105%)				
	Resolution	0.001V (F.S. ≤999.999V), 0.01V(F.S. > 999.999V)				
	Accuracy	<0.1% Umax (750mV)				
Current Setting	Range	0~198.45A(0~105%)	0~330.75A(0~105%)	0~396.9A(0~105%)	0~529.2A(0~105%)	0~661.5A(0~105%)
	Resolution	0.001A(F.S. ≤ 999.999A), 0.01A(F.S. > 999.999A)				
	Accuracy	<0.2%Imax (378mA)	<0.2%Imax(630mA)	<0.2%Imax(756mA)	<0.2%Imax(1008mA)	<0.2%Imax(1260mA)
Power Setting	Range	0~56700W(0~105%)	0~94500W(0~105%)	0~113400W(0~105%)	0~151200W(0~105%)	0~189000W(0~105%)
	Resolution	0.1W(F.S. ≤ 99.9KW), 1W(F.S. > 99.9KW)				
	Accuracy	<0.5%F.S.+ 270W	<0.5%F.S.+ 450W	<0.5%F.S.+ 540W	<0.5%F.S.+ 720W	<0.5%F.S.+ 900W
Ro Setting	Range	0~120Ω	0~71Ω	0~60Ω	0~45Ω	0~36Ω
	Resolution	0.0001Ω				
	Accuracy	R<2%Rmax,I<0.3%Imax				
Ripple ^[3]	Voltage	<1500mVpp, <375mVrms	<2500mVpp, <625mVrms	<3000mVpp, <750mVrms	<4000mVpp, <1000mVrms	<5000mVpp, <1250mVrms
	Current	NA				
Measurement						
Voltage	Range	0~787.5V(0~105%)				
	Resolution	0.001V (F.S. ≤999.999V), 0.01V(F.S. > 999.999V)				
	Accuracy	<0.1%Umax(750mV)				
Current	Range	0~198.45A(0~105%)	0~330.75A(0~105%)	0~396.9A(0~105%)	0~529.2A(0~105%)	0~661.5A(0~105%)
	Resolution	0.001A(F.S. ≤ 999.999A), 0.01A(F.S. > 999.999A)				
	Accuracy	<0.2%Imax(378mA)	<0.2%Imax(630mA)	<0.2%Imax(756mA)	<0.2%Imax(1008mA)	<0.2%Imax(1260mA)
Ro	Range	0~120Ω	0~71Ω	0~60Ω	0~45Ω	0~36Ω
	Resolution	0.0001Ω				
	Accuracy	R<2%Rmax,I<0.3%Imax				

SPS-M/A Series DC Power Supply System

MODEL		SPSM750VDC54000W-3-18	SPSM750VDC90000W-3-24	SPSM750VDC108000W-3-30	SPSM750VDC144000W-3-36	SPSM750VDC180000W-3-42
Power	Range	0~56700W(0~105%)	0~94500W(0~105%)	0~113400W(0~105%)	0~151200W(0~105%)	0~189000W(0~105%)
	Resolution	0.1W(F.S. ≤ 99.9KW), 1W(F.S. > 99.9KW)				
	Accuracy	<0.5%F.S.+ 270W	<0.5%F.S.+ 450W	<0.5%F.S.+ 540W	<0.5%F.S.+ 720W	<0.5%F.S.+ 900W
Sink Function						
Input Voltage	0~750V					
Input Current	0~75A	0~125A	0~150A	0~200A	0~250A	
Input Power	0~2925W	0~4875W	0~5850W	0~7800W	0~9750W	
Min.Operating Voltage	5V@75A	5V@125A	5V@150A	5V@200A	5V@250A	
CC Resolution	9mA	15mA	18mA	24mA	30mA	
CC Accuracy	<0.2%Imax(150mA)	<0.2%Imax(250mA)	<0.2%Imax(300mA)	<0.2%Imax(400mA)	<0.2%Imax(500mA)	
CV Resolution	< 4mV					
CV Accuracy	<0.1%Umax(750mV)					
CP Resolution	4.5W	7.5W	9W	12W	15W	
CP Accuracy	<0.5%Pmax(14625mW)	<0.5%Pmax(24375mW)	<0.5%Pmax(29250mW)	<0.5%Pmax(39000mW)	<0.5%Pmax(48750mW)	
Slew Rate	0.01~2.5A/us					
Dynamic Mode	20~50ms					
General						
Graphic Display	4.3" Color touch LCD					
Operation Key Feature	Soft keys, Numeric keys, Rotary knob, USB port for transfer and upgrading firmware					
Rack Mount Handles	Yes					
FAN	Temperature control					
Protection	OCP, OVP, OPP, OTP, HARD FAIL					
Interface	RS232/RS485/USB(Standard), GPIB/LAN(Optional), CAN(Optional)					
Command Response Time	<3ms					
Emergency Stop Button	Yes					
Environmental						
Operating Temperature	0°C~40°C					
Storage Temperature	-20°C~70°C					
Altitude	<2000m					
Relative Humidity	<95%RH(Non-condensing)@35°C, <80%RH(Non-condensing)@40°C					
Noise	50dB Min, 80dB Max	52dB Min, 82dB Max	53dB Min, 83dB Max	55dB Min, 85dB Max	56dB Min, 86dB Max	
Temperature Coefficient	100ppm/°C at Voltage, 300ppm/°C at Current					
Mechanical						
Dimensions(W x H x D)	560.0x790.0x920.0 mm	560.0x1056.0x920.0 mm	560.0x1324.0x920.0 mm	560.0x1590.0x920.0 mm	560.0x1857.0x920.0 mm	
Package Dimensions (W x H x D)	/	/	/	/	/	
Unit Weight	/	/	/	/	/	
Shipping Weight	/	/	/	/	/	
Regulatory Compliance						
CE Mark	Installation Overvoltage Category II; Class II equipment; indoor use only.					

[1] For different input voltage standard option must be specified at the time of order as they are installed at the factory prior to shipment.

[2] Load transient from 0% to 100% of rated output.

[3] Vrms @ 300kHz, Vpp @ 20MHz, Arms @ 300kHz.

All specifications are subject to change without notice.

SPS-M/A Series DC Power Supply System

MODEL	SPSM1000VDC36000W-3-18	SPSM1000VDC60000W-3-24	SPSM1000VDC72000W-3-30	SPSM1000VDC96000W-3-36	SPSM1000DC120000W-3-42	
Input						
Voltage ^[1]	3P208 187~305VAC					
	3P400 340~480VAC					
	ΔConnect					
Frequency	45-65Hz					
Phase	3 Phase, 3Wire+Groud, ΔConnect					
Power Factor	>0.99(Rate Input Voltage, Full Load)					
Max.Current ^[1]	3P208 L1, L2,L3-123A	3P208 L1, L2,L3-200A	3P208 L1, L2,L3-247A	3P208 L1,L2,L3-330A	3P208 L1,L2,L3-414A	
	3P400 L1, L2,L3-67A	3P400 L1, L2,L3-100A	3P400 L1, L2,L3-132A	3P400 L1,L2,L3-175A	3P400 L1,L2,L3-221A	
Input Power Max	45KVA	75KVA	90KVA	120KVA	150KVA	
Efficiency ^[1]	3P208 ~92%@1000V, 3P208 ~90%@96A	3P208 ~92%@1000V, 3P208 ~90%@160A	3P208 ~92%@1000V, 3P208 ~90%@192A	3P208 ~92%@1000V, 3P208 ~90%@256A	3P208 ~92%@1000V, 3P208 ~90%@320A	
	3P400 ~93.5%@1000V, 3P400 ~92%@96A	3P400 ~93.5%@1000V, 3P400 ~92%@160A	3P400 ~93.5%@1000V, 3P400 ~92%@192A	3P400 ~93.5%@1000V, 3P400 ~92%@256A	3P400 ~93.5%@1000V, 3P400 ~92%@320A	
Output						
Output Voltage	0~1000V					
Output Current	0~96A	0~160A	0~192A	0~256A	0~320A	
Output Power	0~36000W	0~60000W	0~72000W	0~96000W	0~120000W	
Ro	0~312.5Ω	0~187.5Ω	0~156.25Ω	0~117.19Ω	0~93.75Ω	
Load Regulation ^[2]	Voltage	1500mV	2500mV	3000mV	4000mV	5000mV
	Current	<0.15%Imax(144mA)	<0.15%Imax(240mA)	<0.15%Imax(288mA)	<0.15%Imax(384mA)	<0.15%Imax(480mA)
Line Regulation	Voltage	<0.02%Umax(200mV)				
	Current	<0.05%Imax(48mA)	<0.05%Imax(80mA)	<0.05%Imax(96mA)	<0.05%Imax(128mA)	<0.05%Imax(160mA)
Voltage Setting	Range	0~1050V(0~105%)				
	Resolution	0.001V (F.S. ≤999.999V), 0.01V(F.S. > 999.999V)				
	Accuracy	<0.1% Umax (1000mV)				
Current Setting	Range	0~100.8A(0~105%)	0~168A(0~105%)	0~201.6A(0~105%)	0~268.8A(0~105%)	0~336A(0~105%)
	Resolution	0.001A(F.S. ≤ 999.999A), 0.01A(F.S. > 999.999A)				
	Accuracy	<0.2%Imax(192mA)	<0.2%Imax(320mA)	<0.2%Imax(384mA)	<0.2%Imax(512mA)	<0.2%Imax(640mA)
Power Setting	Range	0~37800W(0~105%)	0~63000W(0~105%)	0~75600W(0~105%)	0~100800W(0~105%)	0~126000W(0~105%)
	Resolution	0.1W(F.S. ≤ 99.9KW), 1W(F.S. > 99.9KW)				
	Accuracy	<0.5%F.S.+ 270W	<0.5%F.S.+ 450W	<0.5%F.S.+ 540W	<0.5%F.S.+ 720W	<0.5%F.S.+ 900W
Ro Setting	Range	0~312.5Ω	0~187.5Ω	0~156.25Ω	0~117.19Ω	0~93.75Ω
	Resolution	0.0001Ω				
	Accuracy	R<2%Rmax,I<0.3%Imax				
Ripple ^[3]	Voltage	<2250mVpp, <480mVrms	<3750mVpp, <800mVrms	<4500mVpp, <960mVrms	<6000mVpp, <1280mVrms	<7500mVpp, <1600mVrms
	Current	NA				
Measurement						
Voltage	Range	0~1050V(0~105%)				
	Resolution	0.001V (F.S. ≤999.999V), 0.01V(F.S. > 999.999V)				
	Accuracy	<0.1% Umax (1000mV)				
Current	Range	0~100.8A(0~105%)	0~168A(0~105%)	0~201.6A(0~105%)	0~268.8A(0~105%)	0~336A(0~105%)
	Resolution	0.001A(F.S. ≤ 999.999A), 0.01A(F.S. > 999.999A)				
	Accuracy	<0.2%Imax(192mA)	<0.2%Imax(320mA)	<0.2%Imax(384mA)	<0.2%Imax(512mA)	<0.2%Imax(640mA)
Ro	Range	0~312.5Ω	0~187.5Ω	0~156.25Ω	0~117.19Ω	0~93.75Ω
	Resolution	0.0001Ω				
	Accuracy	R<2%Rmax,I<0.3%Imax				

SPS-M/A Series DC Power Supply System

MODEL		SPSM1000VDC36000W-3-18	SPSM1000VDC60000W-3-24	SPSM1000VDC72000W-3-30	SPSM1000VDC96000W-3-36	SPSM1000DC120000W-3-42
Power	Range	0~37800W(0~105%)	0~63000W(0~105%)	0~75600W(0~105%)	0~100800W(0~105%)	0~126000W(0~105%)
	Resolution	0.1W(F.S. ≤ 99.9KW), 1W(F.S. > 99.9KW)				
	Accuracy	<0.5%F.S.+ 270W	<0.5%F.S.+ 450W	<0.5%F.S.+ 540W	<0.5%F.S.+ 720W	<0.5%F.S.+ 900W
General						
Graphic Display	4.3" Color touch LCD					
Operation Key Feature	Soft keys, Numeric keys, Rotary knob, USB port for transfer and upgrading firmware					
Rack Mount Handles	Yes					
FAN	Temperature control					
Protection	OCP, OVP, OPP, OTP, HARD FAIL					
Interface	RS232/RS485/USB(Standard), GPIB/LAN(Optional), CAN(Optional)					
Command Response Time	<3ms					
Emergency Stop Button	Yes					
Environmental						
Operating Temperature	0°C~40°C					
Storage Temperature	-20°C~70°C					
Altitude	<2000m					
Relative Humidity	<95%RH(Non-condensing)@35°C, <80%RH(Non-condensing)@40°C					
Noise	50dB Min, 78dB Max	52dB Min, 80dB Max	53dB Min, 81dB Max	55dB Min, 83dB Max	56dB Min, 84dB Max	
Temperature Coefficient	100ppm/°C at Voltage, 300ppm/°C at Current					
Mechanical						
Dimensions(W x H x D)	560.0x790.0x920.0 mm	560.0x1056.0x920.0 mm	560.0x1324.0x920.0 mm	560.0x1590.0x920.0 mm	560.0x1857.0x920.0 mm	
Package Dimensions (W x H x D)	/	/	/	/	/	/
Unit Weight	/	/	/	/	/	/
Shipping Weight	/	/	/	/	/	/
Regulatory Compliance						
CE Mark	Installation Overvoltage Category II; Class II equipment; indoor use only.					

[1] For different input voltage standard option must be specified at the time of order as they are installed at the factory prior to shipment.

[2] Load transient from 0% to 100% of rated output.

[3] Vrms @ 300kHz, Vpp @ 20MHz, Arms @ 300kHz.

All specifications are subject to change without notice.

SPS-M/A Series DC Power Supply System

MODEL		SPSM1500VDC54000W-3-18	SPSM1500VDC90000W-3-24	SPSM1500VDC108000W-3-30	SPSM1500VDC144000W-3-36	SPSM1500DC180000W-3-42
Input						
Voltage ^[1]		3P208 187~305VAC				
		3P400 340~480VAC				
		ΔConnect				
Frequency		45-65Hz				
Phase		3 Phase, 3Wire+Groud, ΔConnect				
Power Factor		>0.99(Rate Input Voltage, Full Load)				
Max.Current ^[1]		3P208 L1, L2,L3-180A	3P208 L1, L2,L3-300A	3P208 L1, L2,L3-400A	3P208 L1,L2,L3-480A	3P208 L1,L2,L3-600A
		3P400 L1, L2,L3-90A	3P400 L1, L2,L3-150A	3P400 L1, L2,L3-180A	3P400 L1,L2,L3-240A	3P400 L1,L2,L3-300A
Input Power Max		67KVA	112KVA	135KVA	180KVA	225KVA
Efficiency ^[1]		3P208 ~92%@1500V, 3P208 ~90%@96A	3P208 ~92%@1500V, 3P208 ~90%@160A	3P208 ~92%@1500V, 3P208 ~90%@192A	3P208 ~92%@1500V, 3P208 ~90%@256A	3P208 ~92%@1500V, 3P208 ~90%@320A
		3P400 ~93.5%@1500V, 3P400 ~92%@96A	3P400 ~93.5%@1500V, 3P400 ~92%@160A	3P400 ~93.5%@1500V, 3P400 ~92%@192A	3P400 ~93.5%@1500V, 3P400 ~92%@256A	3P400 ~93.5%@1500V, 3P400 ~92%@320A
Output						
Output Voltage		0~1500V				
Output Current		0~96A	0~160A	0~192A	0~256A	0~320A
Output Power		0~54000W	0~90000W	0~108000W	0~144000W	0~180000W
Ro		0~468.75Ω	0~281.25Ω	0~234.38Ω	0~175.79Ω	0~140.63Ω
Load Regulation ^[2]	Voltage	2250mV	3750mV	4500mV	6000mV	7500mV
	Current	<0.15%Imax(144mA)	<0.15%Imax(240mA)	<0.15%Imax(288mA)	<0.15%Imax(384mA)	<0.15%Imax(480mA)
Line Regulation	Voltage	<0.02%Umax(300mV)				
	Current	<0.05%Imax(48mA)	<0.05%Imax(80mA)	<0.05%Imax(96mA)	<0.05%Imax(128mA)	<0.05%Imax(160mA)
Voltage Setting	Range	0~1575V(0~105%)				
	Resolution	0.001V (F.S. ≤999.999V), 0.01V(F.S. > 999.999V)				
	Accuracy	<0.1% Umax (1500mV)				
Current Setting	Range	0~100.8A(0~105%)	0~168A(0~105%)	0~201.6A(0~105%)	0~268.8A(0~105%)	0~336A(0~105%)
	Resolution	0.001A(F.S. ≤ 999.999A), 0.01A(F.S. > 999.999A)				
	Accuracy	<0.2%Imax(192mA)	<0.2%Imax(320mA)	<0.2%Imax(384mA)	<0.2%Imax(512mA)	<0.2%Imax(640mA)
Power Setting	Range	0~56700W(0~105%)	0~94500W(0~105%)	0~113400W(0~105%)	0~151200W(0~105%)	0~189000W(0~105%)
	Resolution	0.1W(F.S. ≤ 99.9KW), 1W(F.S. > 99.9KW)				
	Accuracy	<0.5%F.S.+ 270W	<0.5%F.S.+ 450W	<0.5%F.S.+ 540W	<0.5%F.S.+ 720W	<0.5%F.S.+ 900W
Ro Setting	Range	0~468.75Ω	0~281.25Ω	0~234.38Ω	0~175.79Ω	0~140.63Ω
	Resolution	0.0001Ω				
	Accuracy	R<2%Rmax,I<0.3%Imax				
Ripple ^[3]	Voltage	<2925mVpp, <975mVrms	<4875mVpp, <1625mVrms	<5850mVpp, <1950mVrms	<7800mVpp, <2600mVrms	<9750mVpp, <3250mVrms
	Current	NA				
Measurement						
Voltage	Range	0~1575V(0~105%)				
	Resolution	0.001V (F.S. ≤999.999V), 0.01V(F.S. > 999.999V)				
	Accuracy	<0.1% Umax (1500mV)				
Current	Range	0~100.8A(0~105%)	0~168A(0~105%)	0~201.6A(0~105%)	0~268.8A(0~105%)	0~336A(0~105%)
	Resolution	0.001A(F.S. ≤ 999.999A), 0.01A(F.S. > 999.999A)				
	Accuracy	<0.2%Imax(192mA)	<0.2%Imax(320mA)	<0.2%Imax(384mA)	<0.2%Imax(512mA)	<0.2%Imax(640mA)
Ro	Range	0~468.75Ω	0~281.25Ω	0~234.38Ω	0~175.79Ω	0~140.63Ω
	Resolution	0.0001Ω				
	Accuracy	R<2%Rmax,I<0.3%Imax				

SPS-M/A Series DC Power Supply System

MODEL		SPSM1500VDC54000W-3-18	SPSM1500VDC90000W-3-24	SPSM1500VDC108000W-3-30	SPSM1500VDC144000W-3-36	SPSM1500DC180000W-3-42
Power	Range	0~56700W(0~105%)	0~94500W(0~105%)	0~113400W(0~105%)	0~151200W(0~105%)	0~189000W((0~105%)
	Resolution	0.1W(F.S. ≤ 99.9KW), 1W(F.S. > 99.9KW)				
	Accuracy	<0.5%F.S.+ 270W	<0.5%F.S.+450W	<0.5%F.S.+ 540W	<0.5%F.S.+ 720W	<0.5%F.S.+ 900W
General						
Graphic Display	4.3" Color touch LCD					
Operation Key Feature	Soft keys, Numeric keys, Rotary knob, USB port for transfer and upgrading firmware					
Rack Mount Handles	Yes					
FAN	Temperature control					
Protection	OCP, OVP, OPP, OTP, HARD FAIL					
Interface	RS232/RS485/USB(Standard), GPIB/LAN(Optional), CAN(Optional)					
Command Response Time	<3ms					
Emergency Stop Button	Yes					
Environmental						
Operating Temperature	0°C~40°C					
Storage Temperature	-20°C~70°C					
Altitude	<2000m					
Relative Humidity	<95%RH(Non-condensing)@35°C, <80%RH(Non-condensing)@40°C					
Noise	50dB Min, 80dB Max	52dB Min, 82dB Max	53dB Min, 83dB Max	55dB Min, 85dB Max	56dB Min, 86dB Max	
Temperature Coefficient	100ppm/°C at Voltage, 300ppm/°C at Current					
Mechanical						
Dimensions(W x H x D)	560.0x790.0x920.0 mm	560.0x1056.0x920.0 mm	560.0x1324.0x920.0 mm	560.0x1590.0x920.0 mm	560.0x1857.0x920.0 mm	
Package Dimensions (W x H x D)	/	/	/	/	/	/
Unit Weight	/	/	/	/	/	/
Shipping Weight	/	/	/	/	/	/
Regulatory Compliance						
CE Mark	Installation Overvoltage Category II; Class II equipment; indoor use only.					

[1] For different input voltage standard option must be specified at the time of order as they are installed at the factory prior to shipment.

[2] Load transient from 0% to 100% of rated output.

[3] Vrms @ 300kHz, Vpp @ 20MHz, Arms @ 300kHz.

All specifications are subject to change without notice.

SPS-M/A Series DC Power Supply System

MODEL		SPSM2250VDC54000W-3-18	SPSM2250VDC90000W-3-24	SPSM2250VDC108000W-3-30	SPSM2250VDC144000W-3-36	SPSM2250DC180000W-3-42
Input						
Voltage ^[1]		3P208 187~305VAC				
		3P400 340~480VAC				
		ΔConnect				
Frequency		45-65Hz				
Phase		3 Phase, 3Wire+Groud, ΔConnect				
Power Factor		>0.99(Rate Input Voltage, Full Load)				
Max.Current ^[1]		3P208 L1, L2,L3-180A	3P208 L1, L2,L3-300A	3P208 L1, L2,L3-400A	3P208 L1,L2,L3-480A	3P208 L1,L2,L3-600A
		3P400 L1, L2,L3-90A	3P400 L1, L2,L3-150A	3P400 L1, L2,L3-180A	3P400 L1,L2,L3-240A	3P400 L1,L2,L3-300A
Input Power Max		67KVA	112KVA	135KVA	180KVA	225KVA
Efficiency ^[1]		3P208 92%@2250V, 3P208 90.5%@63A	3P208 92%@2250V, 3P208 90.5%@105A	3P208 92%@2250V, 3P208 90.5%@126A	3P208 92%@2250V, 3P208 90.5%@168A	3P208 92%@2250V, 3P208 90.5%@210A
		3P400 92.5%@2250V, 3P400 91.5%@63A	3P400 92.5%@2250V, 3P400 91.5%@105A	3P400 92.5%@2250V, 3P400 91.5%@126A	3P400 92.5%@2250V, 3P400 91.5%@168A	3P400 92.5%@2250V, 3P400 91.5%@210A
Output						
Output Voltage		0~2250V				
Output Current		0~63A	0~105A	0~126A	0~168A	0~210A
Output Power		0~54000W	0~90000W	0~108000W	0~144000W	0~180000W
Ro		0~1072Ω	0~642Ω	0~536Ω	0~402Ω	0~322Ω
Load Regulation ^[2]	Voltage	2850mV	4750mV	5700mV	7600mV	9500mV
	Current	<0.15%Imax(94.5mA)	<0.15%Imax(157.5mA)	<0.15%Imax(189mA)	<0.15%Imax(252mA)	<0.15%Imax(315mA)
Line Regulation	Voltage	<0.02%Umax(450mV)				
	Current	<0.05%Imax(31.5mA)	<0.05%Imax(52.5mA)	<0.05%Imax(63mA)	<0.05%Imax(84mA)	<0.05%Imax(105mA)
Voltage Setting	Range	0~2362.5V(0~105%)				
	Resolution	0.001V (F.S. ≤999.999V), 0.01V(F.S. > 999.999V)				
	Accuracy	<0.1% Umax (2250mV)				
Current Setting	Range	0~66.15A(0~105%)	0~110.25A(0~105%)	0~132.3A(0~105%)	0~176.4A(0~105%)	0~220.5A(0~105%)
	Resolution	0.001A(F.S. ≤ 999.999A), 0.01A(F.S. > 999.999A)				
	Accuracy	<0.2%Imax(126mA)	<0.2%Imax(210mA)	<0.2%Imax(252mA)	<0.2%Imax(336mA)	<0.2%Imax(420mA)
Power Setting	Range	0~56700W(0~105%)	0~94500W(0~105%)	0~113400W(0~105%)	0~151200W(0~105%)	0~189000W(0~105%)
	Resolution	0.1W(F.S. ≤ 99.9KW), 1W(F.S. > 99.9KW)				
	Accuracy	<0.5%F.S.+ 270W	<0.5%F.S.+ 450W	<0.5%F.S.+ 540W	<0.5%F.S.+ 720W	<0.5%F.S.+ 900W
Ro Setting	Range	0~1072Ω	0~642Ω	0~536Ω	0~402Ω	0~322Ω
	Resolution	0.0001Ω				
	Accuracy	R<2%Rmax,I<0.3%Imax				
Ripple ^[3]	Voltage	<4800mVpp, <1125mVrms	<8000mVpp, <1875mVrms	<9600mVpp, <2250mVrms	<12800mVpp, <3000mVrms	<16000mVpp, <3750mVrms
	Current	NA				
Measurement						
Voltage	Range	0~2362.5V(0~105%)				
	Resolution	0.001V (F.S. ≤999.999V), 0.01V(F.S. > 999.999V)				
	Accuracy	<0.1% Umax (2250mV)				
Current	Range	0~66.15A(0~105%)	0~110.25A(0~105%)	0~132.3A(0~105%)	0~176.4A(0~105%)	0~220.5A(0~105%)
	Resolution	0.001A(F.S. ≤ 999.999A), 0.01A(F.S. > 999.999A)				
	Accuracy	<0.2%Imax(126mA)	<0.2%Imax(210mA)	<0.2%Imax(252mA)	<0.2%Imax(336mA)	<0.2%Imax(420mA)
Ro	Range	0~1072Ω	0~642Ω	0~536Ω	0~402Ω	0~322Ω
	Resolution	0.0001Ω				
	Accuracy	R<2%Rmax,I<0.3%Imax				

SPS-M/A Series DC Power Supply System

MODEL		SPSM2250VDC54000W-3-18	SPSM2250VDC90000W-3-24	SPSM2250VDC108000W-3-30	SPSM2250VDC144000W-3-36	SPSM2250DC180000W-3-42
Power	Range	0~56700W(0~105%)	0~94500W(0~105%)	0~113400W(0~105%)	0~151200W(0~105%)	0~189000W(0~105%)
	Resolution	0.1W(F.S. ≤ 99.9KW), 1W(F.S. > 99.9KW)				
	Accuracy	<0.5%F.S.+ 270W	<0.5%F.S.+ 450W	<0.5%F.S.+ 540W	<0.5%F.S.+ 720W	<0.5%F.S.+ 900W
General						
Graphic Display	4.3" Color touch LCD					
Operation Key Feature	Soft keys, Numeric keys, Rotary knob, USB port for transfer and upgrading firmware					
Rack Mount Handles	Yes					
FAN	Temperature control					
Protection	OCP, OVP, OPP, OTP, HARD FAIL					
Interface	RS232/RS485/USB(Standard), GPIB/LAN(Optional), CAN(Optional)					
Command Response Time	<3ms					
Emergency Stop Button	Yes					
Environmental						
Operating Temperature	0°C~40°C					
Storage Temperature	-20°C~70°C					
Altitude	<2000m					
Relative Humidity	<95%RH(Non-condensing)@35°C, <80%RH(Non-condensing)@40°C					
Noise	50dB Min, 80dB Max	52dB Min, 82dB Max	53dB Min, 83dB Max	55dB Min, 85dB Max	56dB Min, 86dB Max	56dB Min, 86dB Max
Temperature Coefficient	100ppm/°C at Voltage, 300ppm/°C at Current					
Mechanical						
Dimensions(W x H x D)	560.0x790.0x920.0 mm	560.0x1056.0x920.0 mm	560.0x1324.0x920.0 mm	560.0x1590.0x920.0 mm	560.0x1857.0x920.0 mm	560.0x1857.0x920.0 mm
Package Dimensions (W x H x D)	/	/	/	/	/	/
Unit Weight	/	/	/	/	/	/
Shipping Weight	/	/	/	/	/	/
Regulatory Compliance						
CE Mark	Installation Overvoltage Category II; Class II equipment; indoor use only.					

[1] For different input voltage standard option must be specified at the time of order as they are installed at the factory prior to shipment.

[2] Load transient from 0% to 100% of rated output.

[3] Vrms @ 300kHz, Vpp @ 20MHz, Arms @ 300kHz.

All specifications are subject to change without notice.

SPS-M/A Series DC Power Supply System

MODEL		SPSA80VDC54000W-3-18	SPSA80VDC90000W-3-24	SPSA80VDC108000W-3-30	SPSA80VDC144000W-3-36	SPSA80DC180000W-3-42
Input						
Voltage ^[1]		3P208 187~305VAC				
		3P400 340~480VAC				
		ΔConnect				
Frequency		45-65Hz				
Phase		3 Phase, 3Wire+Groud, ΔConnect				
Power Factor		>0.99(Rate Input Voltage, Full Load)				
Max.Current ^[1]		3P208 L1,L2,L3-180A	3P208 L1,L2,L3-300A	3P208 L1,L2,L3-400A	3P208 L1,L2,L3-480A	3P208 L1,L2,L3-600A
		3P400 L1,L2,L3-90A	3P400 L1,L2,L3-150A	3P400 L1,L2,L3-180A	3P400 L1,L2,L3-240A	3P400 L1,L2,L3-300A
Input Power Max		67KVA	112KVA	135KVA	180KVA	225KVA
Efficiency ^[1]		3P208 ~90.5%@80V, 3P208 ~86.5%@1800A	3P208 ~90.5%@80V, 3P208 ~86.5%@3000A	3P208 ~90.5%@80V, 3P208 ~86.5%@3000A	3P208 ~90.5%@80V, 3P208 ~86.5%@3000A	3P208 ~90.5%@80V, 3P208 ~86.5%@3000A
		3P400 ~92.2%@80V, 3P400 ~87.8%@1800A	3P400 ~92.2%@80V, 3P400 ~87.8%@3000A	3P400 ~92.2%@80V, 3P400 ~87.8%@3000A	3P400 ~92.2%@80V, 3P400 ~87.8%@3000A	3P400 ~92.2%@80V, 3P400 ~87.8%@3000A
Output						
Output Voltage		0~80V				
Output Current ^[2]		0~1800A	0~3000A	0~3000A	0~3000A	0~3000A
Output Power		0~54000W	0~90000W	0~108000W	0~144000W	0~180000W
Ro		0~1.4Ω	0~0.8Ω	0~0.7Ω	0~0.5Ω	0~0.4Ω
Load Regulation ^[3]	Voltage	120mV	200mV	240mV	320mV	400mV
	Current	<0.15%Imax(2700mA)	<0.15%Imax(4500mA)	<0.15%Imax(4500mA)	<0.15%Imax(4500mA)	<0.15%Imax(4500mA)
Line Regulation	Voltage	<0.02%Umax(16mV)				
	Current	<0.05%Imax(900mA)	<0.05%Imax(1500mA)	<0.05%Imax(1500mA)	<0.05%Imax(1500mA)	<0.05%Imax(1500mA)
Voltage Setting	Range	0~84V(0~105%)				
	Resolution	0.001V (F.S. ≤ 999.999V)				
	Accuracy	<0.1% Umax(80mV)				
Current Setting	Range	0~1836A(0~102%)	0~3060A(0~102%)	0~3060A(0~102%)	0~3060A(0~102%)	0~3060A(0~102%)
	Resolution	0.001A(F.S. ≤ 999.999A), 0.01A(F.S. > 999.999A)				
	Accuracy	<0.2%Imax(3600mA)	<0.2%Imax(6000mA)	<0.2%Imax(6000mA)	<0.2%Imax(6000mA)	<0.2%Imax(6000mA)
Power Setting	Range	0~56700W(0~105%)	0~94500W(0~105%)	0~113400W(0~105%)	0~151200W(0~105%)	0~189000W(0~105%)
	Resolution	0.1W(F.S. ≤ 99.9KW), 1W(F.S. > 99.9KW)				
	Accuracy	<0.5%F.S.+ 270W	<0.5%F.S.+ 450W	<0.5%F.S.+ 540W	<0.5%F.S.+ 720W	<0.5%F.S.+ 900W
Ro Setting	Range	0~1.4Ω	0~0.8Ω	0~0.7Ω	0~0.5Ω	0~0.4Ω
	Resolution	0.0001Ω				
	Accuracy	R<2%Rmax,I<0.3%Imax				
Ripple ^[4]	Voltage	<480mVpp, <37.5mVrms	<800mVpp, <62.5mVrms	<960mVpp, <75mVrms	<1280mVpp, <100mVrms	<1600mVpp, <125mVrms
	Current	NA				
Measurement						
Voltage	Range	0~84V(0~105%)				
	Resolution	0.001V (F.S. ≤ 999.999V)				
	Accuracy	<0.1%Umax(80mV)				
Current	Range	0~1836A(0~102%)	0~3060A(0~102%)	0~3060A(0~102%)	0~3060A(0~102%)	0~3060A(0~102%)
	Resolution	0.001A(F.S. ≤ 999.999A), 0.01A(F.S. > 999.999A)				
	Accuracy	<0.2%Imax(3600mA)	<0.2%Imax(6000mA)	<0.2%Imax(6000mA)	<0.2%Imax(6000mA)	<0.2%Imax(6000mA)
Ro	Range	0~1.4Ω	0~0.8Ω	0~0.7Ω	0~0.5Ω	0~0.4Ω
	Resolution	0.0001Ω				
	Accuracy	R<2%Rmax,I<0.3%Imax				

SPS-M/A Series DC Power Supply System

MODEL		SPSA80VDC54000W-3-18	SPSA80VDC90000W-3-24	SPSA80VDC108000W-3-30	SPSA80VDC144000W-3-36	SPSA80DC180000W-3-42
Power	Range	0~56700W(0~105%)	0~94500W(0~105%)	0~113400W(0~105%)	0~151200W(0~105%)	0~189000W(0~105%)
	Resolution	0.1W(F.S. ≤ 99.9KW), 1W(F.S. > 99.9KW)				
	Accuracy	<0.5%F.S.+ 270W	<0.5%F.S.+450W	<0.5%F.S.+ 540W	<0.5%F.S.+ 720W	<0.5%F.S.+ 900W
Sink Function						
Input Voltage	0~80V					
Input Current	0~900A	0~1500A	0~1800A	0~2400A	0~3000A	
Input Power	0~3000W	0~5000W	0~6000W	0~8000W	0~10000W	
Min.Operating Voltage	3V@900	3V@1500	3V@1800	3V@2400	3V@3000	
CC Resolution	90mA	150mA	180mA	240mA	300mA	
CC Accuracy	<0.2%Imax(1800mA)	<0.2%Imax(3000mA)	<0.2%Imax(3600mA)	<0.2%Imax(4800mA)	<0.2%Imax(6000mA)	
CV Resolution	< 4mV					
CV Accuracy	<0.1%Umax(80mV)					
CP Resolution	4.5W	7.5W	9W	12W	15W	
CP Accuracy	<0.5%Pmax(15000mW)	<0.5%Pmax(25000mW)	<0.5%Pmax(30000mW)	<0.5%Pmax(40000mW)	<0.5%Pmax(50000mW)	
Slew Rate	0.01~2.5A/us					
Dynamic Mode	20~50ms					
Control & Supervisory Panel						
Model	CSP5			CSP8		
Environmental						
Operating Temperature ^[1]	0°C~40°C					
Storage Temperature	-20°C~70°C					
Altitude	<2000m					
Relative Humidity	<95%RH(Non-condensing)@35°C, <80%RH(Non-condensing)@40°C					
Noise	50dB Min, 80dB Max	52dB Min, 82dB Max	53dB Min, 83dB Max	55dB Min, 85dB Max	56dB Min, 86dB Max	
Temperature Coefficient	100ppm/°C at Voltage, 300ppm/°C at Current					
Mechanical						
Dimensions(W x H x D)	560.0x790.0x920.0 mm	560.0x1056.0x920.0 mm	560.0x1324.0x920.0 mm	560.0x1590.0x920.0 mm	560.0x1857.0x920.0 mm	
Package Dimensions (W x H x D)	/	/	/	/	/	
Unit Weight	/	/	/	/	/	
Shipping Weight	/	/	/	/	/	
Regulatory Compliance						
CE Mark	Installation Overvoltage Category II; Class II equipment; indoor use only.					

[1] For different input voltage standard option must be specified at the time of order as they are installed at the factory prior to shipment.

[2] It is recommended that the output current is derated by 10% when the operation environment is higher than 30°C.

[3] Load transient from 0% to 100% of rated output.

[4] Vrms @ 300kHz, Vpp @ 20MHz, Arms @ 300kHz.

All specifications are subject to change without notice.

SPS-M/A Series DC Power Supply System

MODEL		SPSA165VDC36000W-3-18	SPSA165VDC60000W-3-24	SPSA165VDC72000W-3-30	SPSA165VDC96000W-3-36	SPSA165VDC120000W-3-42
Input						
Voltage ^[1]		3P208 187~305VAC				
		3P400 340~480VAC				
		ΔConnect				
Frequency		45-65Hz				
Phase		3 Phase, 3Wire+Groud, ΔConnect				
Power Factor		>0.99(Rate Input Voltage, Full Load)				
Max.Current ^[1]		3P208 L1,L2,L3-123A	3P208 L1,L2,L3-200A	3P208 L1,L2,L3-247A	3P208 L1,L2,L3-330A	3P208 L1,L2,L3-414A
		3P400 L1,L2,L3-67A	3P400 L1,L2,L3-100A	3P400 L1,L2,L3-132A	3P400 L1,L2,L3-175A	3P400 L1,L2,L3-221A
Input Power Max		45KVA	75KVA	90KVA	120KVA	150KVA
Efficiency ^[1]		3P208 ~90.5%@165V, 3P208 ~85%@540A	3P208 ~90.5%@165V, 3P208 ~85%@900A	3P208 ~90.5%@165V, 3P208 ~85%@1080A	3P208 ~90.5%@165V, 3P208 ~85%@1440A	3P208 ~90.5%@165V, 3P208 ~85%@1800A
		3P400 ~91.5%@165V, 3P400 ~85.5%@540A	3P400 ~91.5%@165V, 3P400 ~85.5%@900A	3P400 ~91.5%@165V, 3P400 ~85.5%@1080A	3P400 ~91.5%@165V, 3P400 ~85.5%@1440A	3P400 ~91.5%@165V, 3P400 ~85.5%@1800A
Output						
Output Voltage		0~165V				
Output Current ^[2]		0~540A	0~900A	0~1080A	0~1440A	0~1800A
Output Power		0~36000W	0~60000W	0~72000W	0~96000W	0~120000W
Ro		0~9.2Ω	0~5.5Ω	0~4.6Ω	0~3.5Ω	0~2.8Ω
Load Regulation ^[3]	Voltage	247.5mV	412.5mV	495mV	660mV	825mV
	Current	<0.15%Imax(810mA)	<0.15%Imax(1350mA)	<0.15%Imax(1620mA)	<0.15%Imax(2160mA)	<0.15%Imax(2700mA)
Line Regulation	Voltage	<0.02%Umax(33mV)				
	Current	<0.05%Imax(270mA)	<0.05%Imax(450mA)	<0.05%Imax(540mA)	<0.05%Imax(720mA)	<0.05%Imax(900mA)
Voltage Setting	Range	0~173.25V(0~105%)				
	Resolution	0.001V (F.S. ≤999.999V)				
	Accuracy	<0.1% Umax (165mV)				
Current Setting	Range	0~567A(0~105%)	0~945A(0~105%)	0~1134A(0~105%)	0~1512A(0~105%)	0~1890A(0~105%)
	Resolution	0.001A(F.S. ≤ 999.999A), 0.01A(F.S. > 999.999A)				
	Accuracy	<0.2%Imax(1080mA)	<0.2%Imax(1800mA)	<0.2%Imax(2160mA)	<0.2%Imax(2880mA)	<0.2%Imax(3600mA)
Power Setting	Range	0~37800W(0~105%)	0~63000W(0~105%)	0~75600W(0~105%)	0~100800W(0~105%)	0~126000W(0~105%)
	Resolution	0.1W(F.S.≤ 99.9KW),1W(F.S. > 99.9KW)				
	Accuracy	<0.5%F.S.+ 270W	<0.5%F.S.+ 450W	<0.5%F.S.+ 540W	<0.5%F.S.+ 720W	<0.5%F.S.+ 900W
Ro Setting	Range	0~9.2Ω	0~5.5Ω	0~4.6Ω	0~3.5Ω	0~2.8Ω
	Resolution	0.0001Ω				
	Accuracy	R<2%Rmax,I<0.3%Imax				
Ripple ^[4]	Voltage	<870mVpp, <75mVrms	<1350mVpp, <125mVrms	<1740mVpp, <150mVrms	<2320mVpp, <200mVrms	<2900mVpp, <250mVrms
	Current	NA				
Measurement						
Voltage	Range	0~173.25V(0~105%)				
	Resolution	0.001V F.S. ≤999.999V				
	Accuracy	<0.1% Umax (165mV)				
Current	Range	0~567A(0~105%)	0~945A(0~105%)	0~1134A(0~105%)	0~1512A(0~105%)	0~1890A(0~105%)
	Resolution	0.001A(F.S. ≤ 999.999A), 0.01A(F.S. > 999.999A)				
	Accuracy	<0.2%Imax(1080mA)	<0.2%Imax(1800mA)	<0.2%Imax(2160mA)	<0.2%Imax(2880mA)	<0.2%Imax(3600mA)
Ro	Range	0~9.2Ω	0~5.5Ω	0~4.6Ω	0~3.5Ω	0~2.8Ω
	Resolution	0.0001Ω				
	Accuracy	R<2%Rmax,I<0.3%Imax				

SPS-M/A Series DC Power Supply System

MODEL		SPSA165VDC36000W-3-18	SPSA165VDC60000W-3-24	SPSA165VDC72000W-3-30	SPSA165VDC96000W-3-36	SPSA165VDC120000W-3-42
Power	Range	0~37800W(0~105%)	0~63000W((0~105%)	0~75600W(0~105%)	0~100800W(0~105%)	0~126000W(0~105%)
	Resolution	0.1W(F.S. ≤ 99.9KW), 1W(F.S. > 99.9KW)				
	Accuracy	<0.5%F.S.+ 270W	<0.5%F.S.+ 450W	<0.5%F.S.+ 540W	<0.5%F.S.+ 720W	<0.5%F.S.+ 900W
Control & Supervisory Panel						
Model	CSP5			CSP8		
Environmental						
Operating Temperature ^[2]	0°C~40°C					
Storage Temperature	-20°C~70°C					
Altitude	<2000m					
Relative Humidity	<95%RH(Non-condensing)@35°C, <80%RH(Non-condensing)@40°C					
Noise	50dB Min, 78dB Max	52dB Min, 80dB Max	53dB Min, 81dB Max	55dB Min, 83dB Max	56dB Min, 84dB Max	
Temperature Coefficient	100ppm/°C at Voltage, 300ppm/°C at Current					
Mechanical						
Dimensions(W x H x D)	560.0x790.0x920.0 mm	560.0x1056.0x920.0 mm	560.0x1324.0x920.0 mm	560.0x1590.0x920.0 mm	560.0x1857.0x920.0 mm	
Package Dimensions (W x H x D)	/	/	/	/	/	
Unit Weight	/	/	/	/	/	
Shipping Weight	/	/	/	/	/	
Regulatory Compliance						
CE Mark	Installation Overvoltage Category II; Class II equipment; indoor use only.					

[1] For different input voltage standard option must be specified at the time of order as they are installed at the factory prior to shipment.

[2] It is recommended that the output current is derated by 10% when the operation environment is higher than 30°C.

[3] Load transient from 0% to 100% of rated output.

[4] Vrms @ 300kHz, Vpp @ 20MHz, Arms @ 300kHz.

All specifications are subject to change without notice.

SPS-M/A Series DC Power Supply System

MODEL	SPSA250VDC54000W-3-18	SPSA250VDC90000W-3-24	SPSA250VDC108000W-3-30	SPSA250VDC144000W-3-36	SPSA250VDC180000W-3-42	
Input						
Voltage ^[1]	3P208 187~305VAC					
	3P400 340~480VAC					
	ΔConnect					
Frequency	45-65Hz					
Phase	3 Phase, 3Wire+Groud, ΔConnect					
Power Factor	>0.99(Rate Input Voltage, Full Load)					
Max.Current ^[1]	3P208 L1,L2,L3-180A	3P208 L1, L2,L3-300A	3P208 L1,L2,L3-400A	3P208 L1,L2,L3-480A	3P208 L1,L2,L3-600A	
	3P400 L1,L2,L3-90A	3P400 L1,L2,L3-150A	3P400 L1,L2,L3-180A	3P400 L1,L2,L3-240A	3P400 L1,L2,L3-300A	
Input Power Max	67KVA	112KVA	135KVA	180KVA	225KVA	
Efficiency ^[1]	3P208 ~90.5%@250V, 3P208 ~85%@540A	3P208 ~90.5%@250V, 3P208 ~85%@900A	3P208 ~90.5%@250V, 3P208 ~85%@1080A	3P208 ~90.5%@250V, 3P208 ~85%@1440A	3P208 ~90.5%@250V, 3P208 ~85%@1800A	
	3P400 ~91.5%@250V, 3P400 ~85.5%@540A	3P400 ~91.5%@250V, 3P400 ~85.5%@900A	3P400 ~91.5%@250V, 3P400 ~85.5%@1080A	3P400 ~91.5%@250V, 3P400 ~85.5%@1440A	3P400 ~91.5%@250V, 3P400 ~85.5%@1800A	
Output						
Output Voltage	0~250V					
Output Current ^[2]	0~540A	0~900A	0~1080A	0~1440A	0~1800A	
Output Power	0~54000W	0~90000W	0~108000W	0~144000W	0~180000W	
Ro	0~13.9Ω	0~8.3Ω	0~7.0Ω	0~5.2Ω	0~4.2Ω	
Load Regulation ^[3]	Voltage	375mV	625mV	750mV	1000mV	1250mV
	Current	<0.15%Imax(810mA)	<0.15%Imax(1350mA)	<0.15%Imax(1620mA)	<0.15%Imax(2160mA)	<0.15%Imax(2700mA)
Line Regulation	Voltage	<0.02%Umax(50mV)				
	Current	<0.05%Imax(270mA)	<0.05%Imax(450mA)	<0.05%Imax(540mA)	<0.05%Imax(720mA)	<0.05%Imax(900mA)
Voltage Setting	Range	0~262.5V(0~105%)				
	Resolution	0.001V (F.S. ≤999.999V)				
	Accuracy	<0.1% Umax(250mV)				
Current Setting	Range	0~567A(0~105%)	0~945A(0~105%)	0~1134A(0~105%)	0~1512A(0~105%)	0~1890A(0~105%)
	Resolution	0.001A(F.S. ≤ 999.999A), 0.01A(F.S. > 999.999A)				
	Accuracy	<0.2%Imax(1080mA)	<0.2%Imax(1800mA)	<0.2%Imax(2160mA)	<0.2%Imax(2880mA)	<0.2%Imax(3600mA)
Power Setting	Range	0~56700W(0~105%)	0~94500W(0~105%)	0~113400W(0~105%)	0~151200W(0~105%)	0~189000W(0~105%)
	Resolution	0.1W(F.S. ≤ 99.9KW), 1W(F.S. > 99.9KW)				
	Accuracy	<0.5%F.S.+ 270W	<0.5%F.S.+ 450W	<0.5%F.S.+ 540W	<0.5%F.S.+ 720W	<0.5%F.S.+ 900W
Ro Setting	Range	0~13.9Ω	0~8.3Ω	0~7.0Ω	0~5.2Ω	0~4.2Ω
	Resolution	0.0001Ω				
	Accuracy	R<2%Rmax,I<0.3%Imax				
Ripple ^[4]	Voltage	<825mVpp, <75mVrms	<2125mVpp, <187.5mVrms	<1650mVpp, <150mVrms	<2200mVpp, <200mVrms	<2750mVpp, <250mVrms
	Current	NA				
Measurement						
Voltage	Range	0~262.5V(0~105%)				
	Resolution	0.001V (F.S. ≤999.999V)				
	Accuracy	<0.1% Umax (250mV)				
Current	Range	0~567A(0~105%)	0~945A(0~105%)	0~1134A(0~105%)	0~1512A(0~105%)	0~1890A(0~105%)
	Resolution	0.001A(F.S. ≤ 999.999A), 0.01A(F.S. > 999.999A)				
	Accuracy	<0.2%Imax(1080mA)	<0.2%Imax(1800mA)	<0.2%Imax(2160mA)	<0.2%Imax(2880mA)	<0.2%Imax(3600mA)
Ro	Range	0~13.9Ω	0~8.3Ω	0~7.0Ω	0~5.2Ω	0~4.2Ω
	Resolution	0.0001Ω				
	Accuracy	R<2%Rmax,I<0.3%Imax				

SPS-M/A Series DC Power Supply System

MODEL		SPSA250VDC54000W-3-18	SPSA250VDC90000W-3-24	SPSA250VDC108000W-3-30	SPSA250VDC144000W-3-36	SPSA250VDC180000W-3-42
Power	Range	0~56700W(0~105%)	0~94500W(0~105%)	0~113400W(0~105%)	0~151200W(0~105%)	0~189000W(0~105%)
	Resolution	0.1W(F.S. ≤ 99.9KW), 1W(F.S. > 99.9KW)				
	Accuracy	<0.5%F.S.+ 270W	<0.5%F.S.+ 450W	<0.5%F.S.+ 540W	<0.5%F.S.+ 720W	<0.5%F.S.+ 900W
Control & Supervisory Panel						
Model	CSP5			CSP8		
Environmental						
Operating Temperature ^[2]	0°C~40°C					
Storage Temperature	-20°C~70°C					
Altitude	<2000m					
Relative Humidity	<95%RH(Non-condensing)@35°C, <80%RH(Non-condensing)@40°C					
Noise	50dB Min, 80dB Max	52dB Min, 82dB Max	53dB Min, 83dB Max	55dB Min, 85dB Max	56dB Min, 86dB Max	
Temperature Coefficient	100ppm/°C at Voltage, 300ppm/°C at Current					
Mechanical						
Dimensions(W x H x D)	560.0x790.0x920.0 mm	560.0x1056.0x920.0 mm	560.0x1324.0x920.0 mm	560.0x1590.0x920.0 mm	560.0x1857.0x920.0 mm	
Package Dimensions (W x H x D)	/	/	/	/	/	
Unit Weight	/	/	/	/	/	
Shipping Weight	/	/	/	/	/	
Regulatory Compliance						
CE Mark	Installation Overvoltage Category II; Class II equipment; indoor use only.					

[1] For different input voltage standard option must be specified at the time of order as they are installed at the factory prior to shipment.

[2] It is recommended that the output current is derated by 10% when the operation environment is higher than 30°C.

[3] Load transient from 0% to 100% of rated output.

[4] Vrms @ 300kHz, Vpp @ 20MHz, Arms @ 300kHz.

All specifications are subject to change without notice.

SPS-M/A Series DC Power Supply System

MODEL		SPSA360VDC54000W-3-18	SPSA360VDC90000W-3-24	SPSA360VDC108000W-3-30	SPSA360VDC144000W-3-36	SPSA360VDC180000W-3-42
Input						
Voltage ^[1]		3P208 187~305VAC				
		3P400 340~480VAC				
		ΔConnect				
Frequency		45-65Hz				
Phase		3 Phase, 3Wire+Groud, ΔConnect				
Power Factor		>0.99(Rate Input Voltage, Full Load)				
Max.Current ^[1]		3P208 L1,L2,L3-180A	3P208 L1,L2,L3-300A	3P208 L1,L2,L3-400A	3P208 L1,L2,L3-480A	3P208 L1,L2,L3-600A
		3P400 L1,L2,L3-90A	3P400 L1,L2,L3-150A	3P400 L1,L2,L3-180A	3P400 L1,L2,L3-240A	3P400 L1,L2,L3-300A
Input Power Max		67KVA	112KVA	135KVA	180KVA	225KVA
Efficiency ^[1]		3P208 ~92.2%@360V, 3P208 ~90.5%@382.5A	3P208 ~92.2%@360V, 3P208 ~90.5%@637.5A	3P208 ~92.2%@360V, 3P208 ~90.5%@765A	3P208 ~92.2%@360V, 3P208 ~90.5%@1020A	3P208 ~92.2%@360V, 3P208 ~90.5%@1275A
		3P400 ~92.5%@360V, 3P400 ~91%@382.5A	3P400 ~92.5%@360V, 3P400 ~91%@637.5A	3P400 ~92.5%@360V, 3P400 ~91%@765A	3P400 ~92.5%@360V, 3P400 ~91%@1020A	3P400 ~92.5%@360V, 3P400 ~91%@1275A
Output						
Output Voltage		0~360V				
Output Current		0~382.5A	0~637.5A	0~765A	0~1020A	0~1275A
Output Power		0~54000W	0~90000W	0~108000W	0~144000W	0~180000W
Ro		0~28.2Ω	0~16.9Ω	0~14.1Ω	0~10.6Ω	0~8.5Ω
Load Regulation ^[2]	Voltage	540mV	900mV	1080mV	1440mV	1800mV
	Current	<0.15%Imax(574mA)	<0.15%Imax(956mA)	<0.15%Imax(1147mA)	<0.15%Imax(1530mA)	<0.15%Imax(1912mA)
Line Regulation	Voltage	<0.02%Umax(72mV)				
	Current	<0.05%Imax(191mA)	<0.05%Imax(318mA)	<0.05%Imax(382mA)	<0.05%Imax(510mA)	<0.05%Imax(637mA)
Voltage Setting	Range	0~378V(0~105%)				
	Resolution	0.001V (F.S. ≤999.999V)				
	Accuracy	<0.1% Umax (360mV)				
Current Setting	Range	0~401.6A(0~105%)	0~669.3A(0~105%)	0~803.2A(0~105%)	0~1071A(0~105%)	0~1338.7A(0~105%)
	Resolution	0.001A(F.S. ≤ 999.999A), 0.01A(F.S. > 999.999A)				
	Accuracy	<0.2%Imax (765mA)	<0.2%Imax(1275mA)	<0.2%Imax(1530mA)	<0.2%Imax(2040mA)	<0.2%Imax(2550mA)
Power Setting	Range	0~56700W(0~105%)	0~94500W(0~105%)	0~113400W(0~105%)	0~151200W(0~105%)	0~189000W(0~105%)
	Resolution	0.1W(F.S. ≤ 99.9KW), 1W(F.S. > 99.9KW)				
	Accuracy	<0.5%F.S.+ 270W	<0.5%F.S.+ 450W	<0.5%F.S.+ 540W	<0.5%F.S.+ 720W	<0.5%F.S.+ 900W
Ro Setting	Range	0~28.2Ω	0~16.9Ω	0~14.1Ω	0~10.5Ω	0~8.4Ω
	Resolution	0.0001Ω				
	Accuracy	R<2%Rmax,I<0.3%Imax				
Ripple ^[3]	Voltage	<480mVpp, <82.5mVrms	<800mVpp, <137.5mVrms	<960mVpp, <165mVrms	<1280mVpp, <220mVrms	<1600mVpp, <275mVrms
	Current	NA				
Measurement						
Voltage	Range	0~378V(0~105%)				
	Resolution	0.001V (F.S. ≤999.999V)				
	Accuracy	<0.1%Umax(360mV)				
Current	Range	0~401.6A(0~105%)	0~669.3A(0~105%)	0~803.2A(0~105%)	0~1071A(0~105%)	0~1338.7A(0~105%)
	Resolution	0.001A(F.S. ≤ 999.999A), 0.01A(F.S. > 999.999A)				
	Accuracy	<0.2%Imax(765mA)	<0.2%Imax(1275mA)	<0.2%Imax(1530mA)	<0.2%Imax(2040mA)	<0.2%Imax(2550mA)
Ro	Range	0~28.2Ω	0~16.9Ω	0~14.1Ω	0~10.5Ω	0~8.4Ω
	Resolution	0.0001Ω				
	Accuracy	R<2%Rmax,I<0.3%Imax				

SPS-M/A Series DC Power Supply System

MODEL		SPSA360VDC54000W-3-18	SPSA360VDC90000W-3-24	SPSA360VDC108000W-3-30	SPSA360VDC144000W-3-36	SPSA360VDC180000W-3-42
Power	Range	0~56700W(0~105%)	0~94500W(0~105%)	0~113400W(0~105%)	0~151200W(0~105%)	0~189000W(0~105%)
	Resolution	0.1W(F.S. ≤ 99.9KW), 1W(F.S. > 99.9KW)				
	Accuracy	<0.5%F.S.+ 270W	<0.5%F.S.+ 450W	<0.5%F.S.+ 540W	<0.5%F.S.+ 720W	<0.5%F.S.+ 900W
Sink Function						
Input Voltage	0~360V					
Input Current	0~225A	0~375A	0~450A	0~600A	0~750A	
Input Power	0~2925W	0~4875W	0~5850W	0~7800W	0~9750W	
Min.Operating Voltage	8V@120A	8V@200A	8V@240A	8V@320A	8V@400A	
CC Resolution	18mA	30mA	36mA	48mA	60mA	
CC Accuracy	<0.2%Imax(450mA)	<0.2%Imax(750mA)	<0.2%Imax(900mA)	<0.2%Imax(1200mA)	<0.2%Imax(1500mA)	
CV Resolution	< 4mV					
CV Accuracy	<0.1%Umax(360mV)					
CP Resolution	4.5W	7.5W	9W	12W	15W	
CP Accuracy	<0.5%Pmax(14625mW)	<0.5%Pmax(24375mW)	<0.5%Pmax(29250mW)	<0.5%Pmax(39000mW)	<0.5%Pmax(48750mW)	
Slew Rate	0.01~2.5A/us					
Dynamic Mode	20~50ms					
Control & Supervisory Panel						
Model	CSP5			CSP8		
Environmental						
Operating Temperature	0°C~40°C					
Storage Temperature	-20°C~70°C					
Altitude	<2000m					
Relative Humidity	<95%RH(Non-condensing)@35°C, <80%RH(Non-condensing)@40°C					
Noise	50dB Min, 80dB Max	52dB Min, 82dB Max	53dB Min, 83dB Max	55dB Min, 85dB Max	56dB Min, 86dB Max	
Temperature Coefficient	100ppm/°C at Voltage, 300ppm/°C at Current					
Mechanical						
Dimensions(W x H x D)	560.0x790.0x920.0 mm	560.0x1056.0x920.0 mm	560.0x1324.0x920.0 mm	560.0x1590.0x920.0 mm	560.0x1857.0x920.0 mm	
Package Dimensions (W x H x D)	/	/	/	/	/	
Unit Weight	/	/	/	/	/	
Shipping Weight	/	/	/	/	/	
Regulatory Compliance						
CE Mark	Installation Overvoltage Category II; Class II equipment; indoor use only.					

[1] For different input voltage standard option must be specified at the time of order as they are installed at the factory prior to shipment.

[2] Load transient from 0% to 100% of rated output.

[3] Vrms @ 300kHz, Vpp @ 20MHz, Arms @ 300kHz.

All specifications are subject to change without notice.

SPS-M/A Series DC Power Supply System

MODEL		SPSA500VDC54000W-3-18	SPSA500VDC90000W-3-24	SPSA500VDC108000W-3-30	SPSA500VDC144000W-3-36	SPSA500VDC180000W-3-42
Input						
Voltage ^[1]		3P208 187~305VAC				
		3P400 340~480VAC				
		ΔConnect				
Frequency		45-65Hz				
Phase		3 Phase, 3Wire+Groud, ΔConnect				
Power Factor		>0.99(Rate Input Voltage, Full Load)				
Max.Current ^[1]		3P208 L1,L2,L3-180A	3P208 L1,L2,L3-300A	3P208 L1,L2,L3-400A	3P208 L1,L2,L3-480A	3P208 L1,L2,L3-600A
		3P400 L1,L2,L3-90A	3P400 L1,L2,L3-150A	3P400 L1,L2,L3-180A	3P400 L1,L2,L3-240A	3P400 L1,L2,L3-300A
Input Power Max		67KVA	112KVA	135KVA	180KVA	225KVA
Efficiency ^[1]		3P208 ~92.5%@500V, 3P208 ~91%@288A	3P208 ~92.5%@500V, 3P208 ~91%@480A	3P208 ~92.5%@500V, 3P208 ~91%@576A	3P208 ~92.5%@500V, 3P208 ~91%@768A	3P208 ~92.5%@500V, 3P208 ~91%@960A
		3P400 ~94%@500V, 3P400 ~92.5%@288A	3P400 ~94%@500V, 3P400 ~92.5%@480A	3P400 ~94%@500V, 3P400 ~92.5%@576A	3P400 ~94%@500V, 3P400 ~92.5%@768A	3P400 ~94%@500V, 3P400 ~92.5%@960A
Output						
Output Voltage		0~500V				
Output Current		0~288A	0~480A	0~576A	0~768A	0~960A
Output Power		0~54000W	0~90000W	0~108000W	0~144000W	0~180000W
Ro		0~53Ω	0~31Ω	0~27Ω	0~20Ω	0~16Ω
Load Regulation ^[2]	Voltage	750mV	1250mV	1500mV	2000mV	2500mV
	Current	<0.15%Imax(432mA)	<0.15%Imax(720mA)	<0.15%Imax(864mA)	<0.15%Imax(1152mA)	<0.15%Imax(1440mA)
Line Regulation	Voltage	<0.02%Umax(100mV)				
	Current	<0.05%Imax(144mA)	<0.05%Imax(240mA)	<0.05%Imax(288mA)	<0.05%Imax(384mA)	<0.05%Imax(480mA)
Voltage Setting	Range	0~525V(0~105%)				
	Resolution	0.001V (F.S. ≤999.999V), 0.01V(F.S. > 999.999V)				
	Accuracy	<0.1% Umax (500mV)				
Current Setting	Range	0~302.4A(0~105%)	0~504A(0~105%)	0~604.80A(0~105%)	0~806.4A(0~105%)	0~1008A(0~105%)
	Resolution	0.001A(F.S. ≤ 999.999A), 0.01A(F.S. > 999.999A)				
	Accuracy	<0.2%Imax (576mA)	<0.2%Imax(960mA)	<0.2%Imax(1152mA)	<0.2%Imax(1536mA)	<0.2%Imax(1920mA)
Power Setting	Range	0~56700W(0~105%)	0~94500W(0~105%)	0~113400W(0~105%)	0~151200W(0~105%)	0~189000W(0~105%)
	Resolution	0.1W(F.S. ≤ 99.9KW), 1W(F.S. > 99.9KW)				
	Accuracy	<0.5%F.S.+ 270W	<0.5%F.S.+ 450W	<0.5%F.S.+ 540W	<0.5%F.S.+ 720W	<0.5%F.S.+ 900W
Ro Setting	Range	0~53Ω	0~31Ω	0~27Ω	0~20Ω	0~16Ω
	Resolution	0.0001Ω				
	Accuracy	R<2%Rmax,I<0.3%Imax				
Ripple ^[3]	Voltage	<975mVpp, <240mVrms	<1625mVpp, <400mVrms	<1950mVpp, <480mVrms	<2600mVpp, <640mVrms	<3250mVpp, <800mVrms
	Current	NA				
Measurement						
Voltage	Range	0~525V(0~105%)				
	Resolution	0.001V (F.S. ≤999.999V), 0.01V(F.S. > 999.999V)				
	Accuracy	<0.1%Umax(500mV)				
Current	Range	0~302.4A(0~105%)	0~504A(0~105%)	0~604.80A(0~105%)	0~806.4A(0~105%)	0~1008A(0~105%)
	Resolution	0.001A(F.S. ≤ 999.999A), 0.01A(F.S. > 999.999A)				
	Accuracy	<0.2%Imax(576mA)	<0.2%Imax(960mA)	<0.2%Imax(1152mA)	<0.2%Imax(1536mA)	<0.2%Imax(1920mA)
Ro	Range	0~53Ω	0~31Ω	0~27Ω	0~20Ω	0~16Ω
	Resolution	0.0001Ω				
	Accuracy	R<2%Rmax,I<0.3%Imax				

SPS-M/A Series DC Power Supply System

MODEL		SPSA500VDC54000W-3-18	SPSA500VDC90000W-3-24	SPSA500VDC108000W-3-30	SPSA500VDC144000W-3-36	SPSA500VDC180000W-3-42
Power	Range	0~56700W(0~105%)	0~94500W(0~105%)	0~113400W(0~105%)	0~151200W(0~105%)	0~189000W(0~105%)
	Resolution	0.1W(F.S. ≤ 99.9KW), 1W(F.S. > 99.9KW)				
	Accuracy	<0.5%F.S.+ 270W	<0.5%F.S.+ 450W	<0.5%F.S.+ 540W	<0.5%F.S.+ 720W	<0.5%F.S.+ 900W
Sink Function						
Input Voltage	0~500V					
Input Current	0~120A	0~200A	0~240A	0~320A	0~400A	
Input Power	0~2925W	0~4875W	0~5850W	0~7800W	0~9750W	
Min.Operating Voltage	8V@120A	8V@200A	8V@240A	8V@320A	8V@400A	
CC Resolution	9mA	15mA	18mA	24mA	30mA	
CC Accuracy	<0.2%Imax(240mA)	<0.2%Imax(400mA)	<0.2%Imax(480mA)	<0.2%Imax(640mA)	<0.2%Imax(800mA)	
CV Resolution	< 4mV					
CV Accuracy	<0.1%Umax(500mV)					
CP Resolution	4.5W	7.5W	9W	12W	15W	
CP Accuracy	<0.5%Pmax(14625mW)	<0.5%Pmax(24375mW)	<0.5%Pmax(29250mW)	<0.5%Pmax(39000mW)	<0.5%Pmax(48750mW)	
Slew Rate	0.01~2.5A/us					
Dynamic Mode	20~50ms					
Control & Supervisory Panel						
Model	CSP5			CSP8		
Environmental						
Operating Temperature	0°C~40°C					
Storage Temperature	-20°C~70°C					
Altitude	<2000m					
Relative Humidity	<95%RH(Non-condensing)@35°C, <80%RH(Non-condensing)@40°C					
Noise	50dB Min, 80dB Max	52dB Min, 82dB Max	53dB Min, 83dB Max	55dB Min, 85dB Max	56dB Min, 86dB Max	
Temperature Coefficient	100ppm/°C at Voltage, 300ppm/°C at Current					
Mechanical						
Dimensions(W x H x D)	560.0x790.0x920.0 mm	560.0x1056.0x920.0 mm	560.0x1324.0x920.0 mm	560.0x1590.0x920.0 mm	560.0x1857.0x920.0 mm	
Package Dimensions (W x H x D)	/	/	/	/	/	
Unit Weight	/	/	/	/	/	
Shipping Weight	/	/	/	/	/	
Regulatory Compliance						
CE Mark	Installation Overvoltage Category II; Class II equipment; indoor use only.					

[1] For different input voltage standard option must be specified at the time of order as they are installed at the factory prior to shipment.

[2] Load transient from 0% to 100% of rated output.

[3] Vrms @ 300kHz, Vpp @ 20MHz, Arms @ 300kHz.

All specifications are subject to change without notice.

SPS-M/A Series DC Power Supply System

MODEL		SPSA750VDC54000W-3-18	SPSA750VDC90000W-3-24	SPSA750VDC108000W-3-30	SPSA750VDC144000W-3-36	SPSA750VDC180000W-3-42
Input						
Voltage ^[1]		3P208 187~305VAC				
		3P400 340~480VAC				
		ΔConnect				
Frequency		45-65Hz				
Phase		3 Phase, 3Wire+Groud, ΔConnect				
Power Factor		>0.99(Rate Input Voltage, Full Load)				
Max.Current ^[1]		3P208 L1,L2,L3-180A	3P208 L1,L2,L3-300A	3P208 L1,L2,L3-400A	3P208 L1,L2,L3-480A	3P208 L1,L2,L3-600A
		3P400 L1,L2,L3-90A	3P400 L1,L2,L3-150A	3P400 L1,L2,L3-180A	3P400 L1,L2,L3-240A	3P400 L1,L2,L3-300A
Input Power Max		67KVA	112KVA	135KVA	180KVA	225KVA
Efficiency ^[1]		3P208 ~92.5%@750V, 3P208 ~91%@189A	3P208 ~92.5%@750V, 3P208 ~91%@315A	3P208 ~92.5%@750V, 3P208 ~91%@378A	3P208 ~92.5%@750V, 3P208 ~91%@504A	3P208 ~92.5%@750V, 3P208 ~91%@630A
		3P400 ~92.7%@750V, 3P400 ~92%@189A	3P400 ~92.7%@750V, 3P400 ~92%@315A	3P400 ~92.7%@750V, 3P400 ~92%@378A	3P400 ~92.7%@750V, 3P400 ~92%@504A	3P400 ~92.7%@750V, 3P400 ~92%@630A
Output						
Output Voltage		0~750V				
Output Current		0~189A	0~315A	0~378A	0~504A	0~630A
Output Power		0~54000W	0~90000W	0~108000W	0~144000W	0~180000W
Ro		0~120Ω	0~71Ω	0~60Ω	0~45Ω	0~36Ω
Load Regulation ^[2]	Voltage	1110mV	1850mV	2220mV	2960mV	3700mV
	Current	<0.15%Imax(283.5mA)	<0.15%Imax(472.5mA)	<0.15%Imax(567mA)	<0.15%Imax(756mA)	<0.15%Imax(945mA)
Line Regulation	Voltage	<0.02%Umax(150mV)				
	Current	<0.05%Imax(94.5mA)	<0.05%Imax(157.5mA)	<0.05%Imax(189mA)	<0.05%Imax(252mA)	<0.05%Imax(315mA)
Voltage Setting	Range	0~787.5V(0~105%)				
	Resolution	0.001V (F.S. ≤999.999V), 0.01V(F.S. > 999.999V)				
	Accuracy	<0.1% Umax (750mV)				
Current Setting	Range	0~198.45A(0~105%)	0~330.75A(0~105%)	0~396.9A(0~105%)	0~529.2A(0~105%)	0~661.5A(0~105%)
	Resolution	0.001A(F.S. ≤ 999.999A), 0.01A(F.S. > 999.999A)				
	Accuracy	<0.2%Imax (378mA)	<0.2%Imax(630mA)	<0.2%Imax(756mA)	<0.2%Imax(1008mA)	<0.2%Imax(1260mA)
Power Setting	Range	0~56700W(0~105%)	0~94500W(0~105%)	0~113400W(0~105%)	0~151200W(0~105%)	0~189000W(0~105%)
	Resolution	0.1W(F.S. ≤ 99.9KW), 1W(F.S. > 99.9KW)				
	Accuracy	<0.5%F.S.+ 270W	<0.5%F.S.+ 450W	<0.5%F.S.+ 540W	<0.5%F.S.+ 720W	<0.5%F.S.+ 900W
Ro Setting	Range	0~120Ω	0~71Ω	0~60Ω	0~45Ω	0~36Ω
	Resolution	0.0001Ω				
	Accuracy	R<2%Rmax,I<0.3%Imax				
Ripple ^[3]	Voltage	<1500mVpp, <375mVrms	<2500mVpp, <625mVrms	<3000mVpp, <750mVrms	<4000mVpp, <1000mVrms	<5000mVpp, <1250mVrms
	Current	NA				
Measurement						
Voltage	Range	0~787.5V(0~105%)				
	Resolution	0.001V (F.S. ≤999.999V), 0.01V(F.S. > 999.999V)				
	Accuracy	<0.1%Umax(750mV)				
Current	Range	0~198.45A(0~105%)	0~330.75A(0~105%)	0~396.9A(0~105%)	0~529.2A(0~105%)	0~661.5A(0~105%)
	Resolution	0.001A(F.S. ≤ 999.999A), 0.01A(F.S. > 999.999A)				
	Accuracy	<0.2%Imax(378mA)	<0.2%Imax(630mA)	<0.2%Imax(756mA)	<0.2%Imax(1008mA)	<0.2%Imax(1260mA)
Ro	Range	0~120Ω	0~71Ω	0~60Ω	0~45Ω	0~36Ω
	Resolution	0.0001Ω				
	Accuracy	R<2%Rmax,I<0.3%Imax				

SPS-M/A Series DC Power Supply System

MODEL		SPSA750VDC54000W-3-18	SPSA750VDC90000W-3-24	SPSA750VDC108000W-3-30	SPSA750VDC144000W-3-36	SPSA750VDC180000W-3-42
Power	Range	0~56700W(0~105%)	0~94500W(0~105%)	0~113400W(0~105%)	0~151200W(0~105%)	0~189000W(0~105%)
	Resolution	0.1W(F.S. ≤ 99.9KW), 1W(F.S. > 99.9KW)				
	Accuracy	<0.5%F.S.+ 270W	<0.5%F.S.+ 450W	<0.5%F.S.+ 540W	<0.5%F.S.+ 720W	<0.5%F.S.+ 900W
Sink Function						
Input Voltage	0~750V					
Input Current	0~75A	0~125A	0~150A	0~200A	0~250A	
Input Power	0~2925W	0~4875W	0~5850W	0~7800W	0~9750W	
Min.Operating Voltage	5V@75A	5V@125A	5V@150A	5V@200A	5V@250A	
CC Resolution	9mA	15mA	18mA	24mA	30mA	
CC Accuracy	<0.2%Imax(150mA)	<0.2%Imax(250mA)	<0.2%Imax(300mA)	<0.2%Imax(400mA)	<0.2%Imax(500mA)	
CV Resolution	< 4mV					
CV Accuracy	<0.1%Umax(750mV)					
CP Resolution	4.5W	7.5W	9W	12W	15W	
CP Accuracy	<0.5%Pmax(14625mW)	<0.5%Pmax(24375mW)	<0.5%Pmax(29250mW)	<0.5%Pmax(39000mW)	<0.5%Pmax(48750mW)	
Slew Rate	0.01~2.5A/us					
Dynamic Mode	20~50ms					
Control & Supervisory Panel						
Model	CSP5		CSP8			
Environmental						
Operating Temperature	0°C~40°C					
Storage Temperature	-20°C~70°C					
Altitude	<2000m					
Relative Humidity	<95%RH(Non-condensing)@35°C, <80%RH(Non-condensing)@40°C					
Noise	50dB Min, 80dB Max	52dB Min, 82dB Max	53dB Min, 83dB Max	55dB Min, 85dB Max	56dB Min, 86dB Max	
Temperature Coefficient	100ppm/°C at Voltage, 300ppm/°C at Current					
Mechanical						
Dimensions(W x H x D)	560.0x790.0x920.0 mm	560.0x1056.0x920.0 mm	560.0x1324.0x920.0 mm	560.0x1590.0x920.0 mm	560.0x1857.0x920.0 mm	
Package Dimensions (W x H x D)	/	/	/	/	/	
Unit Weight	/	/	/	/	/	
Shipping Weight	/	/	/	/	/	
Regulatory Compliance						
CE Mark	Installation Overvoltage Category II; Class II equipment; indoor use only.					

[1] For different input voltage standard option must be specified at the time of order as they are installed at the factory prior to shipment.

[2] Load transient from 0% to 100% of rated output.

[3] Vrms @ 300kHz, Vpp @ 20MHz, Arms @ 300kHz.

All specifications are subject to change without notice.

SPS-M/A Series DC Power Supply System

MODEL	SPSA1000VDC36000W-3-18	SPSA1000VDC60000W-3-24	SPSA1000VDC72000W-3-30	SPSA1000VDC96000W-3-36	SPSA1000DC120000W-3-42	
Input						
Voltage ^[1]	3P208 187~305VAC					
	3P400 340~480VAC					
	ΔConnect					
Frequency	45-65Hz					
Phase	3 Phase, 3Wire+Groud, ΔConnect					
Power Factor	>0.99(Rate Input Voltage, Full Load)					
Max.Current ^[1]	3P208 L1, L2,L3-123A	3P208 L1, L2,L3-200A	3P208 L1, L2,L3-247A	3P208 L1,L2,L3-330A	3P208 L1,L2,L3-414A	
	3P400 L1, L2,L3-67A	3P400 L1, L2,L3-100A	3P400 L1, L2,L3-132A	3P400 L1,L2,L3-175A	3P400 L1,L2,L3-221A	
Input Power Max	45KVA	75KVA	90KVA	120KVA	150KVA	
Efficiency ^[1]	3P208 ~92%@1000V, 3P208 ~90%@96A	3P208 ~92%@1000V, 3P208 ~90%@160A	3P208 ~92%@1000V, 3P208 ~90%@192A	3P208 ~92%@1000V, 3P208 ~90%@256A	3P208 ~92%@1000V, 3P208 ~90%@320A	
	3P400 ~93.5%@1000V, 3P400 ~92%@96A	3P400 ~93.5%@1000V, 3P400 ~92%@160A	3P400 ~93.5%@1000V, 3P400 ~92%@192A	3P400 ~93.5%@1000V, 3P400 ~92%@256A	3P400 ~93.5%@1000V, 3P400 ~92%@320A	
Output						
Output Voltage	0~1000V					
Output Current	0~96A	0~160A	0~192A	0~256A	0~320A	
Output Power	0~36000W	0~60000W	0~72000W	0~96000W	0~120000W	
Ro	0~312.5Ω	0~187.5Ω	0~156.25Ω	0~117.19Ω	0~93.75Ω	
Load Regulation ^[2]	Voltage	1500mV	2500mV	3000mV	4000mV	5000mV
	Current	<0.15%Imax(144mA)	<0.15%Imax(240mA)	<0.15%Imax(288mA)	<0.15%Imax(384mA)	<0.15%Imax(480mA)
Line Regulation	Voltage	<0.02%Umax(200mV)				
	Current	<0.05%Imax(48mA)	<0.05%Imax(80mA)	<0.05%Imax(96mA)	<0.05%Imax(128mA)	<0.05%Imax(160mA)
Voltage Setting	Range	0~1050V(0~105%)				
	Resolution	0.001V (F.S. ≤999.999V), 0.01V(F.S. > 999.999V)				
	Accuracy	<0.1% Umax (1000mV)				
Current Setting	Range	0~100.8A(0~105%)	0~168A(0~105%)	0~201.6A(0~105%)	0~268.8A(0~105%)	0~336A(0~105%)
	Resolution	0.001A(F.S. ≤ 999.999A), 0.01A(F.S. > 999.999A)				
	Accuracy	<0.2%Imax(192mA)	<0.2%Imax(320mA)	<0.2%Imax(384mA)	<0.2%Imax(512mA)	<0.2%Imax(640mA)
Power Setting	Range	0~37800W(0~105%)	0~63000W(0~105%)	0~75600W(0~105%)	0~100800W(0~105%)	0~126000W(0~105%)
	Resolution	0.1W(F.S. ≤ 99.9KW), 1W(F.S. > 99.9KW)				
	Accuracy	<0.5%F.S.+ 270W	<0.5%F.S.+ 450W	<0.5%F.S.+ 540W	<0.5%F.S.+ 720W	<0.5%F.S.+ 900W
Ro Setting	Range	0~312.5Ω	0~187.5Ω	0~156.25Ω	0~117.19Ω	0~93.75Ω
	Resolution	0.0001Ω				
	Accuracy	R<2%Rmax,I<0.3%Imax				
Ripple ^[3]	Voltage	<2250mVpp, <480mVrms	<3750mVpp, <800mVrms	<4500mVpp, <960mVrms	<6000mVpp, <1280mVrms	<7500mVpp, <1600mVrms
	Current	NA				
Measurement						
Voltage	Range	0~1050V(0~105%)				
	Resolution	0.001V (F.S. ≤999.999V), 0.01V(F.S. > 999.999V)				
	Accuracy	<0.1% Umax (1000mV)				
Current	Range	0~100.8A(0~105%)	0~168A(0~105%)	0~201.6A(0~105%)	0~268.8A(0~105%)	0~336A(0~105%)
	Resolution	0.001A(F.S. ≤ 999.999A), 0.01A(F.S. > 999.999A)				
	Accuracy	<0.2%Imax(192mA)	<0.2%Imax(320mA)	<0.2%Imax(384mA)	<0.2%Imax(512mA)	<0.2%Imax(640mA)
Ro	Range	0~312.5Ω	0~187.5Ω	0~156.25Ω	0~117.19Ω	0~93.75Ω
	Resolution	0.0001Ω				
	Accuracy	R<2%Rmax,I<0.3%Imax				

SPS-M/A Series DC Power Supply System

MODEL		SPSA1000VDC36000W-3-18	SPSA1000VDC60000W-3-24	SPSA1000VDC72000W-3-30	SPSA1000VDC96000W-3-36	SPSA1000DC120000W-3-42
Power	Range	0~37800W(0~105%)	0~63000W(0~105%)	0~75600W(0~105%)	0~100800W(0~105%)	0~126000W(0~105%)
	Resolution	0.1W(F.S. ≤ 99.9KW), 1W(F.S. > 99.9KW)				
	Accuracy	<0.5%F.S.+ 270W	<0.5%F.S.+ 450W	<0.5%F.S.+ 540W	<0.5%F.S.+ 720W	<0.5%F.S.+ 900W
Control & Supervisory Panel						
Model	CSP5			CSP8		
Environmental						
Operating Temperature	0°C~40°C					
Storage Temperature	-20°C~70°C					
Altitude	<2000m					
Relative Humidity	<95%RH(Non-condensing)@35°C, <80%RH(Non-condensing)@40°C					
Noise	50dB Min, 78dB Max	52dB Min, 80dB Max	53dB Min, 81dB Max	55dB Min, 83dB Max	56dB Min, 84dB Max	
Temperature Coefficient	100ppm/°C at Voltage, 300ppm/°C at Current					
Mechanical						
Dimensions(W x H x D)	560.0x790.0x920.0 mm	560.0x1056.0x920.0 mm	560.0x1324.0x920.0 mm	560.0x1590.0x920.0 mm	560.0x1857.0x920.0 mm	
Package Dimensions (W x H x D)	/	/	/	/	/	
Unit Weight	/	/	/	/	/	
Shipping Weight	/	/	/	/	/	
Regulatory Compliance						
CE Mark	Installation Overvoltage Category II; Class II equipment; indoor use only.					

[1] For different input voltage standard option must be specified at the time of order as they are installed at the factory prior to shipment.

[2] Load transient from 0% to 100% of rated output.

[3] Vrms @ 300kHz, Vpp @ 20MHz, Arms @ 300kHz.

All specifications are subject to change without notice.

SPS-M/A Series DC Power Supply System

MODEL		SPSA1500VDC54000W-3-18	SPSA1500VDC90000W-3-24	SPSA1500VDC108000W-3-30	SPSA1500VDC144000W-3-36	SPSA1500DC180000W-3-42
Input						
Voltage ^[1]		3P208 187~305VAC				
		3P400 340~480VAC				
		ΔConnect				
Frequency		45-65Hz				
Phase		3 Phase, 3Wire+Groud, ΔConnect				
Power Factor		>0.99(Rate Input Voltage, Full Load)				
Max.Current ^[1]		3P208 L1, L2,L3-180A	3P208 L1, L2,L3-300A	3P208 L1, L2,L3-400A	3P208 L1,L2,L3-480A	3P208 L1,L2,L3-600A
		3P400 L1, L2,L3-90A	3P400 L1, L2,L3-150A	3P400 L1, L2,L3-180A	3P400 L1,L2,L3-240A	3P400 L1,L2,L3-300A
Input Power Max		67KVA	112KVA	135KVA	180KVA	225KVA
Efficiency ^[1]		3P208 ~92%@1500V, 3P208 ~90%@96A	3P208 ~92%@1500V, 3P208 ~90%@160A	3P208 ~92%@1500V, 3P208 ~90%@192A	3P208 ~92%@1500V, 3P208 ~90%@256A	3P208 ~92%@1500V, 3P208 ~90%@320A
		3P400 ~93.5%@1500V, 3P400 ~92%@96A	3P400 ~93.5%@1500V, 3P400 ~92%@160A	3P400 ~93.5%@1500V, 3P400 ~92%@192A	3P400 ~93.5%@1500V, 3P400 ~92%@256A	3P400 ~93.5%@1500V, 3P400 ~92%@320A
Output						
Output Voltage		0~1500V				
Output Current		0~96A	0~160A	0~192A	0~256A	0~320A
Output Power		0~54000W	0~90000W	0~108000W	0~144000W	0~180000W
Ro		0~468.75Ω	0~281.25Ω	0~234.38Ω	0~175.79Ω	0~140.63Ω
Load Regulation ^[2]	Voltage	2250mV	3750mV	4500mV	6000mV	7500mV
	Current	<0.15%Imax(144mA)	<0.15%Imax(240mA)	<0.15%Imax(288mA)	<0.15%Imax(384mA)	<0.15%Imax(480mA)
Line Regulation	Voltage	<0.02%Umax(300mV)				
	Current	<0.05%Imax(48mA)	<0.05%Imax(80mA)	<0.05%Imax(96mA)	<0.05%Imax(128mA)	<0.05%Imax(160mA)
Voltage Setting	Range	0~1575V(0~105%)				
	Resolution	0.001V (F.S. ≤999.999V), 0.01V(F.S. > 999.999V)				
	Accuracy	<0.1% Umax (1500mV)				
Current Setting	Range	0~100.8A(0~105%)	0~168A(0~105%)	0~201.6A(0~105%)	0~268.8A(0~105%)	0~336A(0~105%)
	Resolution	0.001A(F.S. ≤ 999.999A), 0.01A(F.S. > 999.999A)				
	Accuracy	<0.2%Imax(192mA)	<0.2%Imax(320mA)	<0.2%Imax(384mA)	<0.2%Imax(512mA)	<0.2%Imax(640mA)
Power Setting	Range	0~56700W(0~105%)	0~94500W(0~105%)	0~113400W(0~105%)	0~151200W(0~105%)	0~189000W(0~105%)
	Resolution	0.1W(F.S. ≤ 99.9KW), 1W(F.S. > 99.9KW)				
	Accuracy	<0.5%F.S.+ 270W	<0.5%F.S.+ 450W	<0.5%F.S.+ 540W	<0.5%F.S.+ 720W	<0.5%F.S.+ 900W
Ro Setting	Range	0~468.75Ω	0~281.25Ω	0~234.38Ω	0~175.79Ω	0~140.63Ω
	Resolution	0.0001Ω				
	Accuracy	R<2%Rmax,I<0.3%Imax				
Ripple ^[3]	Voltage	<2925mVpp, <975mVrms	<4875mVpp, <1625mVrms	<5850mVpp, <1950mVrms	<7800mVpp, <2600mVrms	<9750mVpp, <3250mVrms
	Current	NA				
Measurement						
Voltage	Range	0~1575V(0~105%)				
	Resolution	0.001V (F.S. ≤999.999V), 0.01V(F.S. > 999.999V)				
	Accuracy	<0.1% Umax (1500mV)				
Current	Range	0~100.8A(0~105%)	0~168A(0~105%)	0~201.6A(0~105%)	0~268.8A(0~105%)	0~336A(0~105%)
	Resolution	0.001A(F.S. ≤ 999.999A), 0.01A(F.S. > 999.999A)				
	Accuracy	<0.2%Imax(192mA)	<0.2%Imax(320mA)	<0.2%Imax(384mA)	<0.2%Imax(512mA)	<0.2%Imax(640mA)
Ro	Range	0~468.75Ω	0~281.25Ω	0~234.38Ω	0~175.79Ω	0~140.63Ω
	Resolution	0.0001Ω				
	Accuracy	R<2%Rmax,I<0.3%Imax				

SPS-M/A Series DC Power Supply System

MODEL		SPSA1500VDC54000W-3-18	SPSA1500VDC90000W-3-24	SPSA1500VDC108000W-3-30	SPSA1500VDC144000W-3-36	SPSA1500DC180000W-3-42
Power	Range	0~56700W(0~105%)	0~94500W(0~105%)	0~113400W(0~105%)	0~151200W(0~105%)	0~189000W((0~105%)
	Resolution	0.1W(F.S. ≤ 99.9KW), 1W(F.S. > 99.9KW)				
	Accuracy	<0.5%F.S.+ 270W	<0.5%F.S.+450W	<0.5%F.S.+ 540W	<0.5%F.S.+ 720W	<0.5%F.S.+ 900W
Control & Supervisory Panel						
Model	CSP5			CSP8		
Environmental						
Operating Temperature	0°C~40°C					
Storage Temperature	-20°C~70°C					
Altitude	< 2000m					
Relative Humidity	<95%RH(Non-condensing)@35°C, < 80%RH(Non-condensing)@40°C					
Noise	50dB Min, 80dB Max	52dB Min, 82dB Max	53dB Min, 83dB Max	55dB Min, 85dB Max	56dB Min, 86dB Max	
Temperature Coefficient	100ppm/°C at Voltage, 300ppm/°C at Current					
Mechanical						
Dimensions(W x H x D)	560.0x790.0x920.0 mm	560.0x1056.0x920.0 mm	560.0x1324.0x920.0 mm	560.0x1590.0x920.0 mm	560.0x1857.0x920.0 mm	
Package Dimensions (W x H x D)	/	/	/	/	/	
Unit Weight	/	/	/	/	/	
Shipping Weight	/	/	/	/	/	
Regulatory Compliance						
CE Mark	Installation Overvoltage Category II; Class II equipment; indoor use only.					

[1] For different input voltage standard option must be specified at the time of order as they are installed at the factory prior to shipment.

[2] Load transient from 0% to 100% of rated output.

[3] Vrms @ 300kHz, Vpp @ 20MHz, Arms @ 300kHz.

All specifications are subject to change without notice.

SPS-M/A Series DC Power Supply System

MODEL	SPSA2250VDC54000W-3-18	SPSA2250VDC90000W-3-24	SPSA2250VDC108000W-3-30	SPSA2250VDC144000W-3-36	SPSA2250DC180000W-3-42	
Input						
Voltage ^[1]	3P208 187~305VAC					
	3P400 340~480VAC					
	ΔConnect					
Frequency	45-65Hz					
Phase	3 Phase, 3Wire+Groud, ΔConnect					
Power Factor	>0.99(Rate Input Voltage, Full Load)					
Max.Current ^[1]	3P208 L1, L2,L3-180A	3P208 L1, L2,L3-300A	3P208 L1, L2,L3-400A	3P208 L1,L2,L3-480A	3P208 L1,L2,L3-600A	
	3P400 L1, L2,L3-90A	3P400 L1, L2,L3-150A	3P400 L1, L2,L3-180A	3P400 L1,L2,L3-240A	3P400 L1,L2,L3-300A	
Input Power Max	67KVA	112KVA	135KVA	180KVA	225KVA	
Efficiency ^[1]	3P208 92%@2250V, 3P208 90.5%@63A	3P208 92%@2250V, 3P208 90.5%@105A	3P208 92%@2250V, 3P208 90.5%@126A	3P208 92%@2250V, 3P208 90.5%@168A	3P208 92%@2250V, 3P208 90.5%@210A	
	3P400 92.5%@2250V, 3P400 91.5%@63A	3P400 92.5%@2250V, 3P400 91.5%@105A	3P400 92.5%@2250V, 3P400 91.5%@126A	3P400 92.5%@2250V, 3P400 91.5%@168A	3P400 92.5%@2250V, 3P400 91.5%@210A	
Output						
Output Voltage	0~2250V					
Output Current	0~63A	0~105A	0~126A	0~168A	0~210A	
Output Power	0~54000W	0~90000W	0~108000W	0~144000W	0~180000W	
Ro	0~1072Ω	0~642Ω	0~536Ω	0~402Ω	0~322Ω	
Load Regulation ^[2]	Voltage	2850mV	4750mV	5700mV	7600mV	9500mV
	Current	<0.15%Imax(94.5mA)	<0.15%Imax(157.5mA)	<0.15%Imax(189mA)	<0.15%Imax(252mA)	<0.15%Imax(315mA)
Line Regulation	Voltage	<0.02%Umax(450mV)				
	Current	<0.05%Imax(31.5mA)	<0.05%Imax(52.5mA)	<0.05%Imax(63mA)	<0.05%Imax(84mA)	<0.05%Imax(105mA)
Voltage Setting	Range	0~2362.5V(0~105%)				
	Resolution	0.001V (F.S. ≤999.999V), 0.01V(F.S. > 999.999V)				
	Accuracy	<0.1% Umax (2250mV)				
Current Setting	Range	0~66.15A(0~105%)	0~110.25A(0~105%)	0~132.3A(0~105%)	0~176.4A(0~105%)	0~220.5A(0~105%)
	Resolution	0.001A(F.S. ≤ 999.999A), 0.01A(F.S. > 999.999A)				
	Accuracy	<0.2%Imax(126mA)	<0.2%Imax(210mA)	<0.2%Imax(252mA)	<0.2%Imax(336mA)	<0.2%Imax(420mA)
Power Setting	Range	0~56700W(0~105%)	0~94500W(0~105%)	0~113400W(0~105%)	0~151200W(0~105%)	0~189000W(0~105%)
	Resolution	0.1W(F.S. ≤ 99.9KW), 1W(F.S. > 99.9KW)				
	Accuracy	<0.5%F.S.+ 270W	<0.5%F.S.+ 450W	<0.5%F.S.+ 540W	<0.5%F.S.+ 720W	<0.5%F.S.+ 900W
Ro Setting	Range	0~1072Ω	0~642Ω	0~536Ω	0~402Ω	0~322Ω
	Resolution	0.0001Ω				
	Accuracy	R<2%Rmax,I<0.3%Imax				
Ripple ^[3]	Voltage	<4800mVpp, <1125mVrms	<8000mVpp, <1875mVrms	<9600mVpp, <2250mVrms	<12800mVpp, <3000mVrms	<16000mVpp, <3750mVrms
	Current	NA				
Measurement						
Voltage	Range	0~2362.5V(0~105%)				
	Resolution	0.001V (F.S. ≤999.999V), 0.01V(F.S. > 999.999V)				
	Accuracy	<0.1% Umax (2250mV)				
Current	Range	0~66.15A(0~105%)	0~110.25A(0~105%)	0~132.3A(0~105%)	0~176.4A(0~105%)	0~220.5A(0~105%)
	Resolution	0.001A(F.S. ≤ 999.999A), 0.01A(F.S. > 999.999A)				
	Accuracy	<0.2%Imax(126mA)	<0.2%Imax(210mA)	<0.2%Imax(252mA)	<0.2%Imax(336mA)	<0.2%Imax(420mA)
Ro	Range	0~1072Ω	0~642Ω	0~536Ω	0~402Ω	0~322Ω
	Resolution	0.0001Ω				
	Accuracy	R<2%Rmax,I<0.3%Imax				

SPS-M/A Series DC Power Supply System

MODEL		SPSA2250VDC54000W-3-18	SPSA2250VDC90000W-3-24	SPSA2250VDC108000W-3-30	SPSA2250VDC144000W-3-36	SPSA2250DC180000W-3-42
Power	Range	0~56700W(0~105%)	0~94500W(0~105%)	0~113400W(0~105%)	0~151200W(0~105%)	0~189000W((0~105%)
	Resolution	0.1W(F.S. ≤ 99.9KW), 1W(F.S. > 99.9KW)				
	Accuracy	<0.5%F.S.+ 270W	<0.5%F.S.+ 450W	<0.5%F.S.+ 540W	<0.5%F.S.+ 720W	<0.5%F.S.+ 900W
Control & Supervisory Panel						
Model	CSP5		CSP8			
Environmental						
Operating Temperature	0°C~40°C					
Storage Temperature	-20°C~70°C					
Altitude	<2000m					
Relative Humidity	<95%RH(Non-condensing)@35°C, <80%RH(Non-condensing)@40°C					
Noise	50dB Min, 80dB Max	52dB Min, 82dB Max	53dB Min, 83dB Max	55dB Min, 85dB Max	56dB Min, 86dB Max	
Temperature Coefficient	100ppm/°C at Voltage, 300ppm/°C at Current					
Mechanical						
Dimensions(W x H x D)	560.0x790.0x920.0 mm	560.0x1056.0x920.0 mm	560.0x1324.0x920.0 mm	560.0x1590.0x920.0 mm	560.0x1857.0x920.0 mm	
Package Dimensions (W x H x D)	/	/	/	/	/	
Unit Weight	/	/	/	/	/	
Shipping Weight	/	/	/	/	/	
Regulatory Compliance						
CE Mark	Installation Overvoltage Category II; Class II equipment; indoor use only.					

[1] For different input voltage standard option must be specified at the time of order as they are installed at the factory prior to shipment.

[2] Load transient from 0% to 100% of rated output.

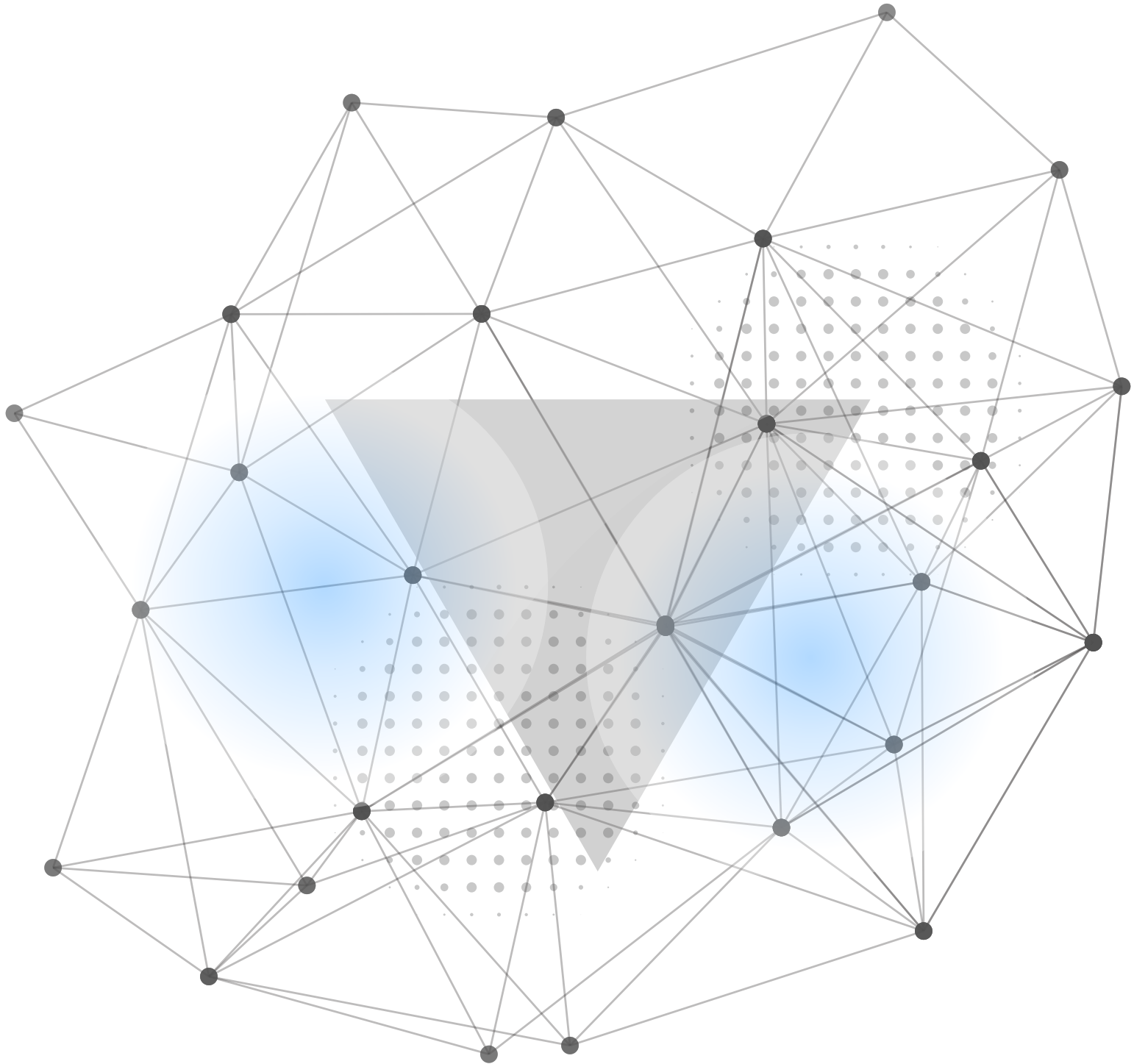
[3] Vrms @ 300kHz, Vpp @ 20MHz, Arms @ 300kHz.

All specifications are subject to change without notice.

SPS-M/A Series DC Power Supply System

Model		CSP8		CSP5		
Control Unit		1~10 (3U Height Unit)	1~5 (6U Height Unit)	1~5 (3U Height Unit)	1~2 (6U Height Unit)	
Input						
Input Voltage Range (L-L) ^[1]		187~305VAC	/	187~305VAC	/	
Rated Voltage (L-L) ^[1]		340~480VAC				
Input Frequency Range		45-65Hz				
Wires		3ph, PE				
Max Current ^[1]		800A@208V Input	800A@208V Input	400A@208V Input	400A@208V Input	
		400A@400V Input	400A@400V Input	200A@400V Input	200A@400V Input	
Max Power		230kVA	230kVA	120kVA	120kVA	
Timer Setting						
Power OFF Timer		DDD/HH/MM				
Sequential Control Settings						
Power ON Sequence		From the first Slave unit to the last Slave unit				
Power OFF Sequence		All slave units Power Off at the same time				
ON/OFF Control		Manual/Timer/Remote				
Power Meter						
Voltage(L1/L2/L3)		Range	180~460VAC			
		Resolution	0.01V			
		Accuracy	± 0.2%			
Frequency		Resolution	0.01Hz			
		Accuracy	± 0.2%			
Current(L1/L2/L3)		Range	0~800A	0~400A		
		Resolution	0.01A			
		Accuracy	± 0.8%			
Power		Resolution	0.001kW			
		Accuracy	± 1.5%			
Power Factor		Resolution	0.01			
		Accuracy	± 1%			
Protection						
OVP		+10% of Nominal Input				
UVP		-10% of Nominal Input				
OCP		+10% of Max. Input Current				
OFP/UFP		50Hz±5Hz/60Hz±5Hz				
Phase Loss		Alarm and stop operation when lose any phase				
Safety						
Emergency Stop		Multiple rack cabinet EMS can be connected in series Extendable EMS switch				
General Specification						
Controller Power Supply		Input Voltage	187~253VAC 340~460VAC			
		Frequency	45-65Hz			
		Power Consumption	55W	60W	44W	50W
		Standby Power	28W	28W	28W	28W
Graphic Display		4.3" Color touch LCD				
Operation Key Feature		Soft keys, Numeric keys, Rotary knob, USB port for transfer and upgrading firmware				
Interface		RS232/RS485/USB(Standard), GPIB & LAN(Optional), CAN(Optional)				
Command Response Time		<3ms				
Environmental						
Operating Temperature		0~40°C				
Storage Temperature		-20~70°C				
Temperature Coefficient		<95%RH(non-condensing)@35°C, <80%RH(non-condensing)@40°C				
Relative Humidity		<2000m				
Cooling Method		Forced air cooling				
Mechanical						
Dimensions(WxHxD)		423.0 x 353.0 x 578.0 mm		423.0 x 220.0 x 578.0 mm		
Unit Weight		28kg		20kg		
Withstanding Voltage						
Primary - Chassis		DC 2121V				
Primary - Secondary		DC 4242V				
Secondary - Chassis		DC 2121V				

[1] For different input voltage standard option must be specified at the time of order as they are installed at the factory prior to shipment.



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