

High Power DC Power Supply

MODEL	SP250VDC18000W	SP250VDC36000W
INPUT		
Voltage ^[1]	190~253VAC 340~460VAC	
Current ^[1]	3P208 L1,L2,L3-60A 3P400 L1,L2,L3-30A	3P208 L1,L2,L3-125A 3P400 L1,L2,L3-63A
Frequency	45~65Hz	
Connection	3ph, PE	
Fusing (Internal) ^[1]	T50A*2pcs T30A*2pcs	
Power Factor	>0.99	
Input Power	22KVAmax	44KVAmax
Efficiency ^[1]	90.5% 92.5%	
OUTPUT		
Voltage Range	0~250V	
Current Range ^[2]	0~200A	0~400A
Power Range	0~18000W	0~36000W
Max. Setup Range	Voltage	0~262.5V(0~105%)
	Current	0~210A(0~105%)
	Power	0~18900W(0~105%)
	Internal Resistance	0~37.5Ω
Accuracy	Voltage	<0.1%Umax(250mV)
	Current	<0.2%Imax(400mA)
	Power	<0.5%+90W
	Internal Resistance	R<2% Rmax, I<0.3% Imax
Line Regulation	Voltage	<0.02%Umax(50mV)
	Current	<0.05%Imax(100mA)
	Power	<0.05%Pmax
Load Regulation ^[3]	Voltage	<0.05%Umax(125mV)
	Current	<0.15%Imax(300mA)
	Power	<0.75%Pmax
Rise Time	Voltage	<15ms (No Load) <100ms (Full Load)
Drop Time	Voltage	<850ms (No Load) <10ms (Full Load)
Transient Response Time	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(400mA)
	Power	<0.5%Pmax
	Internal Resistance	<0.4%Rmax
Ripple ^[4]	Voltage	<550mVpp, <50mVrms
	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, Support USB disk	
Rack Mount Handles	Yes	
FAN	Temperature control	
Protection	OCP, OVP, OPP, OTP	

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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 UI/P/R	<0.2% F.S	
Actual Output U/I	<0.2%	
Control Signals	DC ON/OFF, Remote Control ON/OFF	
Status Signals	CV, OVP, OT	
Sample Rate of Input&Output	45Hz	
Galvanic Isolation to the Device	1.5kVDC	
MASTER/SLAVE CONTROL		
Serial 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	48dB Idle; 68dB Max;	48dB Idle; 71dB Max;
MECHANICAL		
Dimensions (WxHxD)	483.0x132.0x800.0 mm	483.0x265.0x800.0 mm
Package Dimensions (WxHxD)	665.0x347.0x1009.0 mm	665.0x480.0x1009.0 mm
Unit Net Weight	45kg	90kg
Net Weight	54kg	120kg
MISCELLANEOUS		
Over Voltage Category	II	
Protection Class	I	
Pollution Degree	2	
Insulation	AC input <->DC out put, 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 10% to 90% of rated output.

[4] RMS Value 300kHz; PP Value 20MHz.