

High Power DC Power Supply

MODEL	SP80VDC24000W	SP80VDC30000W	SP80VDC36000W		
INPUT					
Voltage ^[1]	190~253VAC 340~460VAC				
Current ^[1]	3P208 L1-60A, L2,L3-103A 3P400 L1-30A, L2,L3-49A				
Frequency	45~65Hz				
Connection	3ph, PE				
Fusing (Internal) ^[1]	T50A*2pcs T30A*2pcs				
Power Factor	>0.99				
Input Power	26.6KVArmax	33.3KVArmax	44.0KVArmax		
Efficiency ^[1]	90.5% 92.5%				
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	0~840A(0~105%)	0~1050A(0~105%)		
	Power	0~26400W(0~105%)	0~31500W(0~105%)		
	Internal Resistance	0~3.0Ω	0~2.4Ω		
Accuracy	Voltage	<0.1%Umax(80mV)			
	Current	<0.2%Imax(1600mA)	<0.2%Imax(2000mA)		
	Power	<1%+120W	<1%+150W		
	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)		
	Power	<0.05%Pmax			
Load Regulation ^[3]	Voltage	<0.05%Umax(40mV)			
	Current	<0.15%Imax(1200mA)	<0.15%Imax(1500mA)		
	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/0.8V			
Display Resolution	Voltage	0.001V			
	Current	0.001A	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)		
	Power	<0.5%Pmax			
	Internal Resistance	<0.4%Rmax			
Ripple ^[4]	Voltage	<320mVpp, <25mVrms			
	Current	<360mA rms	<450mA rms		
Remote Compensation	Voltage	5%Umax(4V)			
Sink Function					
Input Voltage	0~80V				
Input Current	0~396A	0~495A	0~594A		
Input Power	0~1300W	0~1600W	0~2000W		
Min. Operating Voltage	1V				
CC Resolution	10mA				

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CC Accuracy	<0.2%I _{max} (792mA)	<0.2%I _{max} (990mA)	<0.2%I _{max} (1188mA)
CV Resolution	<4mV		
CV Accuracy	<0.1%U _{max} (80mV)		
CP Resolution	0.5W		
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, Support USB disk		
Rack Mount Handles	Yes		
FAN	Temperature control		
Protection	OCP, OVP, OPP, OTP		
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, 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; 70dB Max;	48dB Idle; 71dB Max;	48dB Idle; 73dB Max;
MECHANICAL			
Dimensions (WxHxD)	483.0x265.0x800.0 mm		
Package Dimensions (WxHxD)	665.0x480.0x1009.0 mm		
Unit Net Weight	67.6kg	78.8kg	90kg
Net Weight	97.6kg	108.8kg	120kg
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 10% to 90% of rated output.

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