

# High Power DC Power Supply

MODEL	SP80VDC6000W	SP80VDC12000W	SP80VDC18000W		
<b>INPUT</b>					
Voltage <sup>[1]</sup>	187~253VAC 340~460VAC				
Current <sup>[1]</sup>	3P208 L1-0, L2,L3-38A 3P400 L1-0, L2,L3-19A				
Frequency	45~65Hz				
Connection	2ph, PE	3ph, PE	3ph, PE		
Fusing (Internal) <sup>[1]</sup>	T50A*2pcs T30A*2pcs				
Power Factor	>0.99				
Input Power	7.3kVAmax	14.6kVAmax	22kVAmax		
Efficiency <sup>[1]</sup>	90.5% 92.5%				
<b>OUTPUT</b>					
Voltage Range	0~80V				
Current Range <sup>[2]</sup>	0~200A	0~400A	0~600A		
Power Range	0~6000W	0~12000W	0~18000W		
Max. Setup Range	Voltage	0~84V(0~105%)			
	Current	0~210A(0~105%)	0~420A(0~105%)		
	Power	0~6300W(0~105%)	0~12600W(0~105%)		
	Internal Resistance	0~12Ω	0~6Ω		
Accuracy	Voltage	<0.1%Umax(80mV)			
	Current	<0.2%Imax(400mA)	<0.2%Imax(800mA)		
	Power	<0.5%+30W	<0.5%+60W		
	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)		
	Power	<0.05%Pmax			
Load Regulation <sup>[3]</sup>	Voltage	<0.05%Umax(40mV)			
	Current	<0.15%Imax(300mA)	<0.15%Imax(600mA)		
	Power	<0.75%Pmax			
Rise Time	Voltage	<15ms (No Load) <10ms (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			
	Power	0.1W			
	Internal Resistance	0.0001Ω			
Measurement Accuracy	Voltage	<0.1%Umax(80mV)			
	Current	<0.2%Imax(400mA)	<0.2%Imax(800mA)		
	Power	<0.5%Pmax			
	Internal Resistance	<0.4%Rmax			
Ripple <sup>[4]</sup>	Voltage	<180mVpp, <15mVrms	<288mVpp, <23mVrms		
	Current	<100mA rms	<200mA rms		
Remote Compensation	Voltage	5%Umax(4V)			
<b>Sink Function</b>					
Input Voltage	0~80V				
Input Current	0~99A	0~198A	0~297A		
Input Power	0~325W	0~650W	0~1000W		
Min. Operating Voltage	1V				
CC Resolution	10mA				

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CC Accuracy	<0.2%I <sub>max</sub> (198mA)	<0.2%I <sub>max</sub> (396mA)	<0.2%I <sub>max</sub> (594mA)
CV Resolution	<4mV		
CV Accuracy	<0.1%U <sub>max</sub> (80mV)		
CP Resolution	0.5W		
CP Accuracy	<0.5%P <sub>max</sub> (1625mW)	<0.5%P <sub>max</sub> (3250mW)	<0.5%P <sub>max</sub> (5000mW)
Slew Rate	0.01~2.5A/us		
Dynamic Mode	20ms~50s		
<b>GENERAL</b>			
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		
<b>ANALOG INTERFACE(Optional)</b>			
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		
<b>MASTER/SLAVE CONTROL</b>			
Serial Output	MAX 2 units		
Parallel Output	MAX 16 units		
<b>ENVIRONMENTAL</b>			
Operating Temperature <sup>[2]</sup>	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; 65dB Max;	48dB Idle; 67dB Max;	48dB Idle; 69dB Max;
<b>MECHANICAL</b>			
Dimensions ( WxHxD )	483.0x132.0x800.0 mm		
Package Dimensions ( WxHxD )	665.0x347.0x1009.0 mm		
Unit Net Weight	23kg	34kg	45kg
Net Weight	32kg	43kg	54kg
<b>MISCELLANEOUS</b>			
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.