

Efficiency, Stability, Reliable, Precision



High Power Programmable DC Power Supply

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High Power Programmable DC Power Supply

MODEL	SP80VDC6000W	SP80VDC12000W	SP80VDC18000W	
INPUT				
Voltage ^[1]	187~253VAC			
	340~460VAC			
Current ^[1]	3P208 L1-0, L2,L3-38A	3P208 L1-60A, L2,L3-38A	3P208 L1,L2,L3-60A	
	3P400 L1-0, L2,L3-19A	3P400 L1-30A, L2,L3-19A	3P400 L1,L2,L3-30A	
Frequency	45~65Hz			
Connection	2ph, PE	3ph, PE	3ph, PE	
Fusing (Internal) ^[1]	T50A*2pcs			
	T25A*2pcs			
Power Factor	>0.99			
Input Power	7.3KVAmx	14.6KVAmx	22KVAmx	
Efficiency ^[1]	90.5%			
	92.5%			
OUTPUT				
Voltage Range	0~80V			
Current Range	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%)	0~630A(0~105%)
	Power	0~6300W(0~105%)	0~12600W(0~105%)	0~18900W(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	Voltage	<0.05%Umax(40mV)		
	Current	<0.15%Imax(300mA)	<0.15%Imax(600mA)	<0.15%Imax(900mA)
	Power	<0.75%Pmax		
Rise Time	Voltage <15ms (No Load) <10ms (Full Load)			
Drop Time	Voltage <650ms (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)	<0.2%Imax(1200mA)
	Power	<0.5%Pmax		
	Internal Resistance	<0.4%Rmax		
Ripple ^[2]	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	0~99A	0~198A	0~297A	
Input Power	0~325W	0~650W	0~1000W	
Min. Operating Voltage	1V			
CC Resolution	10mA			

High Power Programmable DC Power Supply

MODEL	SP80VDC6000W	SP80VDC12000W	SP80VDC18000W
CC Accuracy	<0.2%Imax(198mA)	<0.2%Imax(396mA)	<0.2%Imax(594mA)
CV Resolution	<4mV		
CV Accuracy	<0.1%Umax(80mV)		
CP Resolution	0.5W		
CP Accuracy	<0.5%Pmax(1625mW)	<0.5%Pmax(3250mW)	<0.5%Pmax(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, 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	0~45°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@45°C; <2001m~2500m@40°C,		
Fan Noise	48dB Idle; 65dB Max;	48dB Idle; 67dB Max;	48dB Idle; 69dB Max;
MECHANICAL			
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
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] RMS Value 300kHz; PP Value 20MHz.

High Power Programmable DC Power Supply

MODEL	SP80VDC24000W	SP80VDC30000W	SP80VDC36000W	
INPUT				
Voltage ^[1]	190~253VAC			
	340~460VAC			
Current ^[1]	3P208 L1-60A, L2,L3-103A	3P208 L1-125A,L2,L3-103A	3P208 L1,L2,L3-125A	
	3P400 L1-30A, L2,L3-49A	3P400 L1-63A,L2,L3-49A	3P400 L1,L2,L3-63A	
Frequency	45~65Hz			
Connection	3ph, PE			
Fusing (Internal) ^[1]	T50A*2pcs			
	T25A*2pcs			
Power Factor	>0.99			
Input Power	26.6KVAmx	33.3KVAmx	44.0KVAmx	
Efficiency ^[1]	90.5%			
	92.5%			
OUTPUT				
Voltage Range	0~80V			
Current Range	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%)	0~1260A(0~105%)
	Power	0~26400W(0~105%)	0~31500W(0~105%)	0~37800W(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	<1%+150W	<1%+180W
	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	Voltage	<0.05%Umax(40mV)		
	Current	<0.15%Imax(1200mA)	<0.15%Imax(1500mA)	<0.15%Imax(1800mA)
	Power	<0.75%Pmax		
Rise Time	Voltage <15ms (No Load) <100ms (Full Load)			
Drop Time	Voltage <650ms (No Load) <10ms (Full Load)			
Transient Response Time	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 ^[2]	Voltage	<320mVpp, <25mVrms		
	Current	<360mArms	<450mArms	<540mArms
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			

High Power Programmable DC Power Supply

MODEL	SP80VDC24000W	SP80VDC30000W	SP80VDC36000W
CC Accuracy	<0.2%Imax(792mA)	<0.2%Imax(990mA)	<0.2%Imax(1188mA)
CV Resolution	<4mV		
CV Accuracy	<0.1%Umax(80mV)		
CP Resolution	0.5W		
CP Accuracy	<0.5%Pmax(6500mW)	<0.5%Pmax(8000mW)	<0.5%Pmax(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	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; <2001m~2500m@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 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] RMS Value 300kHz; PP Value 20MHz.

High Power Programmable DC Power Supply

MODEL		SP165VDC12000W	SP165VDC24000W
INPUT			
Voltage ^[1]		187~253VAC	190~253VAC
		340~460VAC	
Current ^[1]		3P208 L1-60A, L2,L3-38A	3P208 L1-125A,L2,L3-103A
		3P400 L1-30A, L2,L3-19A	3P400 L1-63A,L2,L3-49A
Frequency		45~65Hz	
Connection		3ph, PE	
Fusing (Internal) ^[1]		T50A*2pcs	
		T25A*2pcs	
Power Factor		>0.99	
Input Power		14.6KVAmx	26.6KVAmx
Efficiency ^[1]		90.5%	
		92.5%	
OUTPUT			
Voltage Range		0~165V	
Current Range		0~200A	0~400A
Power Range		0~12000W	0~24000W
Max. Setup Range	Voltage	0~173.25V(0~105%)	
	Current	0~210A(0~105%)	0~420A(0~105%)
	Power	0~12600W(0~105%)	0~25200W(0~105%)
	Internal Resistance	0~24.8Ω	0~12.4Ω
Accuracy	Voltage	<0.1%Umax(165mV)	
	Current	<0.2%Imax(400mA)	<0.2%Imax(800mA)
	Power	<0.5%+60W	<1%+120W
	Internal Resistance	R<2% Rmax, I<0.3% Imax	
Line Regulation	Voltage	<0.02%Umax(33mV)	
	Current	<0.05%Imax(100mA)	<0.05%Imax(200mA)
	Power	<0.05%Pmax	
Load Regulation	Voltage	<0.05%Umax(82.5mV)	
	Current	<0.15%Imax(300mA)	<0.15%Imax(600mA)
	Power	<0.75%Pmax	
Rise Time	Voltage	<15ms (No Load) <100ms (Full Load)	
Drop Time	Voltage	<650ms (No Load) <10ms (Full Load)	
Transient Response Time	Voltage	≤1.5ms/1.5V	
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%Imax(400mA)	<0.2%Imax(800mA)
	Power	<0.5%Pmax	
	Internal Resistance	<0.4%Rmax	
Ripple ^[2]	Voltage	<580mVpp, <50mVrms	
	Current	<100mArms	<200mArms
Remote Compensation	Voltage	2%Umax(3.3V)	
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	

High Power Programmable DC Power Supply

MODEL	SP165VDC12000W	SP165VDC24000W
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//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	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; <2001m~2500m@40°C,	
Fan Noise	48dB Idle; 67dB 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	34kg	78.8kg
Net Weight	43kg	108.8kg
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] RMS Value 300kHz; PP Value 20MHz.

High Power Programmable DC Power Supply

MODEL		SP250VDC18000W	SP250VDC36000W
INPUT			
Voltage ^[1]		190~253VAC	
		340~460VAC	
Current ^[1]		3P208 L1,L2,L3-60A	3P208 L1,L2,L3-125A
		3P400 L1,L2,L3-30A	3P400 L1,L2,L3-63A
Frequency		45~65Hz	
Connection		3ph, PE	
Fusing (Internal) ^[1]		T50A*2pcs	
		T25A*2pcs	
Power Factor		>0.99	
Input Power		22KVAmix	44KVAmix
Efficiency ^[1]		90.5%	
		92.5%	
OUTPUT			
Voltage Range		0~250V	
Current Range		0~200A	0~400A
Power Range		0~18000W	0~36000W
Max. Setup Range	Voltage	0~262.5V(0~105%)	
	Current	0~210A(0~105%)	0~420A(0~105%)
	Power	0~18900W(0~105%)	0~37800W(0~105%)
	Internal Resistance	0~37.5Ω	0~18.8Ω
Accuracy	Voltage	<0.1%U _{max} (250mV)	
	Current	<0.2%I _{max} (400mA)	<0.2%I _{max} (800mA)
	Power	<0.5%+90W	<1%+180W
	Internal Resistance	R<2% R _{max} , I<0.3% I _{max}	
Line Regulation	Voltage	<0.02%U _{max} (50mV)	
	Current	<0.05%I _{max} (100mA)	<0.05%I _{max} (200mA)
	Power	<0.05%P _{max}	
Load Regulation	Voltage	<0.05%U _{max} (125mV)	
	Current	<0.15%I _{max} (300mA)	<0.15%I _{max} (600mA)
	Power	<0.75%P _{max}	
Rise Time	Voltage	<15ms (No Load) <100ms (Full Load)	
Drop Time	Voltage	<650ms (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%U _{max} (250mV)	
	Current	<0.2%I _{max} (400mA)	<0.2%I _{max} (800mA)
	Power	<0.5%P _{max}	
	Internal Resistance	<0.4%R _{max}	
Ripple ^[2]	Voltage	<550mV _{pp} , <50mV _{rms}	
	Current	<100mArms	<200mArms
Remote Compensation	Voltage	1%U _{max} (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	

High Power Programmable DC Power Supply

MODEL	SP250VDC18000W	SP250VDC36000W
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//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	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@45°C; <2001m~2500m@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] RMS Value 300kHz; PP Value 20MHz.

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