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High Power DC Power Supply

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High Power DC Power Supply

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High Power DC Power Supply

Selection List:

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SP80VDC6000W	80V	200A	6000W	P01
SP80VDC12000W	80V	400A	12000W	P01
SP80VDC18000W	80V	600A	18000W	P01
SP80VDC24000W	80V	800A	24000W	P03
SP80VDC30000W	80V	1000A	30000W	P03
SP80VDC36000W	80V	1200A	36000W	P03
SP165VDC12000W	165V	180A	12000W	P05
SP165VDC24000W	165V	360A	24000W	P05
SP250VDC18000W	250V	180A	18000W	P07
SP250VDC36000W	250V	360A	36000W	P07
SP500VDC6000W	500V	32A	6000W	P09
SP500VDC12000W	500V	64A	12000W	P09
SP500VDC18000W	500V	96A	18000W	P09
SP500VDC24000W	500V	128A	24000W	P11
SP500VDC30000W	500V	160A	30000W	P11
SP500VDC36000W	500V	192A	36000W	P11
SP750VDC6000W	750V	21A	6000W	P13
SP750VDC12000W	750V	42A	12000W	P13
SP750VDC18000W	750V	63A	18000W	P13
SP750VDC24000W	750V	84A	24000W	P15
SP750VDC30000W	750V	105A	30000W	P15
SP750VDC36000W	750V	126A	36000W	P15
SP1000VDC12000W	1000V	32A	12000W	P17
SP1000VDC24000W	1000V	64A	24000W	P17
SP1500VDC12000W	1500V	21A	12000W	P19
SP1500VDC18000W	1500V	32A	18000W	P19
SP1500VDC24000W	1500V	42A	24000W	P21
SP1500VDC36000W	1500V	64A	36000W	P21
SP2250VDC18000W	2250V	21A	18000W	P23
SP2250VDC36000W	2250V	42A	36000W	P23

High Power 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	
Fuse (Internal) ^[1]	T50A*2pcs			
	T30A*2pcs			
Power Factor	>0.99			
Input Power	7.2kVAmax	14.4kVAmax	21.6kVAmax	
Efficiency ^[1]	3P208 ~90.5%@80V, 3P208 ~86.5%@200A	3P208 ~90.5%@80V, 3P208 ~86.5%@400A	3P208 ~90.5%@80V, 3P208 ~86.5%@600A	
	3P400 ~92.2%@80V, 3P400 ~87.8%@200A	3P400 ~92.2%@80V, 3P400 ~87.8%@400A	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	0~210A(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 ^[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) <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		
	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	0~99A	0~198A	0~297A	
Input Power	0~325W	0~650W	0~1000W	
Min. Operating Voltage	1.8V@5A			
CC Resolution	10mA			

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, 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	1.5kVDC		
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; 71dB Max;	45dB Idle; 73dB Max;	45dB Idle; 75dB Max;
Mechanical			
Dimensions (WxHxD)	423.0x133.0x700.0 mm		
Package Dimensions (WxHxD)	665.0x347.0x1009.0 mm		
Unit Weight	23kg	34kg	45kg
Shipping Weight	32kg	43kg	54kg
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] Test value at 100% voltage and 100% power.

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

High Power DC Power Supply

MODEL	SP80VDC24000W	SP80VDC30000W	SP80VDC36000W	
Input				
Voltage ^[1]	200~253VAC 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			
Fuse (Internal) ^[1]	T50A*2pcs			
	T30A*2pcs			
Power Factor	>0.99			
Input Power	28.8kVAmax	36kVAmax	43.2kVAmax	
Efficiency ^[1]	3P208 ~90.5%@80V, 3P208 ~86.5%@800A	3P208 ~90.5%@80V, 3P208 ~86.5%@1000A	3P208 ~90.5%@80V, 3P208 ~86.5%@1200A	
	3P400 ~92.2%@80V, 3P400 ~87.8%@800A	3P400 ~92.2%@80V, 3P400 ~87.8%@1000A	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	0~840A(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 ^[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	0~396A	0~495A	0~594A	
Input Power	0~1300W	0~1600W	0~2000W	
Min. Operating Voltage	1.8V@5A			
CC Resolution	10mA			

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, 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	1.5kVDC		
Series Output			
Series Output	MAX 2 units		
Parallel Output			
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; 77dB Max;	48dB Idle; 80dB Max;	48dB Idle; 82dB Max;
Mechanical			
Dimensions (WxHxD)	423.0x265.0x740.0 mm		
Package Dimensions (WxHxD)	549.0x531.0x946.0 mm		
Unit Weight	75kg	86kg	97kg
Shipping Weight	101kg	112kg	113kg
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] Test value at 100% voltage and 100% power.

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

High Power DC Power Supply

MODEL		SP165VDC12000W	SP165VDC24000W
Input			
Voltage ^[1]		187~253VAC	200~253VAC
		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	
Fuse (Internal) ^[1]		T50A*2pcs	
		T30A*2pcs	
Power Factor		>0.99	
Input Power		14.5kVAmax	29kVAmax
Efficiency ^[1]		3P208 ~90.5%@165V, 3P208 ~85%@180A	3P208 ~90.5%@165V, 3P208 ~85%@360A
		3P400 ~91.5%@165V, 3P400 ~85.5%@180A	3P400 ~91.5%@165V, 3P400 ~85.5%@360A
Output			
Voltage Range		0~165V	
Current Range ^[2]		0~180A	0~360A
Power Range		0~12000W	0~24000W
Max. Setup Range	Voltage	0~173.25V(0~105%)	
	Current	0~189A(0~105%)	0~378A(0~105%)
	Power	0~12600W(0~105%)	0~25200W(0~105%)
	Internal Resistance	0~27.5Ω	0~13.8Ω
Accuracy	Voltage	<0.1%Umax(165mV)	
	Current	<0.2%Imax(360mA)	<0.2%Imax(720mA)
	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(90mA)	<0.05%Imax(180mA)
	Power	<0.05%Pmax	
Load Regulation ^[3]	Voltage	<0.05%Umax(82.5mV) @Rated Voltage, <0.1%Umax(165mV) @Rated Current	
	Current	<0.15%Imax(270mA)	<0.15%Imax(540mA)
	Power	<0.75%Pmax	
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%Imax(360mA)	<0.2%Imax(720mA)
	Power	<0.5%Pmax	
	Internal Resistance	<0.4%Rmax	
Ripple ^[5]	Voltage	<540mVpp, <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, USB port for transfer and upgrading firmware	
Rack Mount Handles		Yes	
FAN		Temperature control	
Protection		OCP, OVP, OPP, OTP, HARD FAIL	

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, External control Enable/Disable	
Status Signals	CV, OVP, OT	
Sampling Rate of Input & Output	45Hz	
Galvanic Isolation to the Device	1.5kVDC	
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;
Mechanical		
Dimensions (WxHxD)	423.0x133.0x700.0 mm	423.0x265.0x740.0 mm
Package Dimensions (WxHxD)	665.0x347.0x1009.0 mm	549.0x531.0x946.0 mm
Unit Weight	34kg	75kg
Shipping Weight	43kg	101kg
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] Test value at 100% voltage and 100% power.

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

High Power DC Power Supply

MODEL		SP250VDC18000W	SP250VDC36000W
Input			
Voltage ^[1]		190~253VAC	200~253VAC
		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	
Fuse (Internal) ^[1]		T50A*2pcs	
		T30A*2pcs	
Power Factor		>0.99	
Input Power		21.75kVAmax	43.5kVAmax
Efficiency ^[1]		3P208 ~90.5%@250V, 3P208 ~85%@180A	3P208 ~90.5%@250V, 3P208 ~85%@360A
		3P400 ~91.5%@250V, 3P400 ~85.5%@180A	3P400 ~91.5%@250V, 3P400 ~85.5%@360A
Output			
Voltage Range		0~250V	
Current Range ^[2]		0~180A	0~360A
Power Range		0~18000W	0~36000W
Max. Setup Range	Voltage	0~262.5V(0~105%)	
	Current	0~189A(0~105%)	0~378A(0~105%)
	Power	0~18900W(0~105%)	0~37800W(0~105%)
	Internal Resistance	0~41.7Ω	0~20.9Ω
Accuracy	Voltage	<0.1%Umax(250mV)	
	Current	<0.2%Imax(360mA)	<0.2%Imax(720mA)
	Power	<0.5%+90W	<1%+180W
	Internal Resistance	R<2% Rmax, I<0.3% Imax	
Line Regulation	Voltage	<0.02%Umax(50mV)	
	Current	<0.05%Imax(90mA)	<0.05%Imax(180mA)
	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)	<0.15%Imax(540mA)
	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)	<0.2%Imax(720mA)
	Power	<0.5%Pmax	
	Internal Resistance	<0.4%Rmax	
Ripple ^[5]	Voltage	<850mVpp, <75mVrms	
	Current	<100mArms	<200mArms
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	

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/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	1.5kVDC	
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;	48dB Idle; 82dB Max;
Mechanical		
Dimensions (WxHxD)	423.0x133.0x700.0 mm	423.0x265.0x740.0 mm
Package Dimensions (WxHxD)	665.0x347.0x1009.0 mm	549.0x531.0x946.0 mm
Unit Weight	45kg	97kg
Shipping Weight	54kg	113kg
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] Test value at 100% voltage and 100% power.

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

High Power DC Power Supply

MODEL	SP500VDC6000W	SP500VDC12000W	SP500VDC18000W	
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	
Fuse (Internal) ^[1]	T50A*2pcs			
	T30A*2pcs			
Power Factor	>0.99			
Input Power	7.2kVAmax	14.4kVAmax	21.6kVAmax	
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%Imax(64mA)	<0.2%Imax(128mA)	<0.2%Imax(192mA)
	Power	<1%+60W		
	Internal Resistance	R<2% Rmax, I<0.3% Imax		
Line Regulation	Voltage	<0.02%Umax(100mV)		
	Current	<0.05%Imax(16mA)	<0.05%Imax(32mA)	<0.05%Imax(48mA)
	Power	<0.05%Pmax		
Load Regulation ^[2]	Voltage	<0.05%Umax(250mV) @Rated Voltage, <0.1%Umax(500mV) @Rated Current		
	Current	<0.15%Imax(48mA)	<0.15%Imax(96mA)	<0.15%Imax(144mA)
	Power	<0.75%Pmax		
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%Imax(64mA)	<0.2%Imax(128mA)	<0.2%Imax(192mA)
	Power	<0.5%Pmax		
	Internal Resistance	<0.4%Rmax		
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@3.7A			
CC Resolution	1mA			

MODEL	SP500VDC6000W	SP500VDC12000W	SP500VDC18000W
CC Accuracy	<0.2%Imax(32mA)	<0.2%Imax(64mA)	<0.2%Imax(96mA)
CV Resolution	<4mV		
CV Accuracy	<0.1%Umax(500mV)		
CP Resolution	0.5W		
CP Accuracy	<0.5%Pmax(1625mW)	<0.5%Pmax(3250mW)	<0.5%Pmax(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	1.5kVDC		
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)	423.0x133.0x700.0 mm		
Package Dimensions (WxHxD)	665.0x347.0x1009.0 mm		
Unit Weight	23kg	34kg	45kg
Shipping Weight	32kg	43kg	54kg
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 10% to 90% of rated output.

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

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

High Power DC Power Supply

MODEL	SP500VDC24000W	SP500VDC30000W	SP500VDC36000W	
Input				
Voltage ^[1]	200~253VAC 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			
Fuse (Internal) ^[1]	T50A*2pcs			
	T30A*2pcs			
Power Factor	>0.99			
Input Power	28.8kVAmax	36kVAmax	43.2kVAmax	
Efficiency ^[1]	3P208 ~92.5%@500V, 3P208 ~91%@128A	3P208 ~92.5%@500V, 3P208 ~91%@160A	3P208 ~92.5%@500V, 3P208 ~91%@192A	
	3P400 ~94%@500V, 3P400 ~92.5%@128A	3P400 ~94%@500V, 3P400 ~92.5%@160A	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%)		0~37800W(0~105%)
	Internal Resistance	0~118Ω	0~94Ω	0~79Ω
Accuracy	Voltage	<0.1%Umax(500mV)		
	Current	<0.2%Imax(256mA)	<0.2%Imax(320mA)	<0.2%Imax(384mA)
	Power	<1%+180W		<1%+360W
	Internal Resistance	R<2% Rmax, I<0.3% Imax		
Line Regulation	Voltage	<0.02%Umax(100mV)		
	Current	<0.05%Imax(64mA)	<0.05%Imax(80mA)	<0.05%Imax(96mA)
	Power	<0.05%Pmax		
Load Regulation ^[2]	Voltage	<0.05%Umax(250mV) @Rated Voltage, <0.1%Umax(500mV) @Rated Current		
	Current	<0.15%Imax(192mA)	<0.15%Imax(240mA)	<0.15%Imax(288mA)
	Power	<0.75%Pmax		
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%Imax(256mA)	<0.2%Imax(320mA)	<0.2%Imax(384mA)
	Power	<0.5%Pmax		
	Internal Resistance	<0.4%Rmax		
Ripple ^[4]	Voltage	<650mVpp, <160mVrms		
	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@3.7A			
CC Resolution	1mA	10mA	10mA	

MODEL	SP500VDC24000W	SP500VDC30000W	SP500VDC36000W
CC Accuracy	<0.2%Imax(128mA)	<0.2%Imax(160mA)	<0.2%Imax(192mA)
CV Resolution	<4mV		
CV Accuracy	<0.1%Umax(500mV)		
CP Resolution	0.5W		
CP Accuracy	<0.5%Pmax(6500mW)	<0.5%Pmax(8125mW)	<0.5%Pmax(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	1.5kVDC		
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)	423.0x265.0x740.0 mm		
Package Dimensions (WxHxD)	549.0x531.0x946.0 mm		
Unit Weight	75kg	86kg	97kg
Shipping Weight	101kg	112kg	113kg
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 10% to 90% of rated output.

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

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

High Power DC Power Supply

MODEL	SP750VDC6000W	SP750VDC12000W	SP750VDC18000W	
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	
Fuse (Internal) ^[1]	T50A*2pcs			
	T30A*2pcs			
Power Factor	>0.99			
Input Power	7.2kVAmax	14.4kVAmax	21.6kVAmax	
Efficiency ^[1]	3P208 ~92.5%@750V, 3P208 ~91%@21A	3P208 ~92.5%@750V, 3P208 ~91%@42A	3P208 ~92.5%@750V, 3P208 ~91%@63A	
	3P400 ~92.7%@750V, 3P400 ~92%@21A	3P400 ~92.7%@750V, 3P400 ~92%@42A	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%)		0~18900W(0~105%)
	Internal Resistance	0~1072Ω	0~536Ω	0~358Ω
Accuracy	Voltage	<0.1%Umax(750mV)		
	Current	<0.2%Imax(42mA)	<0.2%Imax(84mA)	<0.2%Imax(126mA)
	Power	<1%+60W		<1%+120W
	Internal Resistance	R<2% Rmax, I<0.3% Imax		
Line Regulation	Voltage	<0.02%Umax(150mV)		
	Current	<0.05%Imax(10.5mA)	<0.05%Imax(21mA)	<0.05%Imax(31.5mA)
	Power	<0.05%Pmax		
Load Regulation ^[2]	Voltage	<0.05%Umax(375mV) @Rated Voltage, <0.1%Umax(750mV) @Rated Current		
	Current	<0.15%Imax(31.5mA)	<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 <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%Imax(42mA)	<0.2%Imax(84mA)	<0.2%Imax(126mA)
	Power	<0.5%Pmax		
	Internal Resistance	<0.4%Rmax		
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	8V@3.7A			
CC Resolution	1mA			

MODEL	SP750VDC6000W	SP750VDC12000W	SP750VDC18000W
CC Accuracy	<0.2%Imax(20mA)	<0.2%Imax(40mA)	<0.2%Imax(60mA)
CV Resolution	<4mV		
CV Accuracy	<0.1%Umax(750mV)		
CP Resolution	0.5W		
CP Accuracy	<0.5%Pmax(1625mW)	<0.5%Pmax(3250mW)	<0.5%Pmax(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	1.5kVDC		
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)	423.0x133.0x700.0 mm		
Package Dimensions (WxHxD)	665.0x347.0x1009.0 mm		
Unit Weight	23kg	34kg	45kg
Shipping Weight	32kg	43kg	54kg
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 10% to 90% of rated output.

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

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

High Power DC Power Supply

MODEL	SP750VDC24000W	SP750VDC30000W	SP750VDC36000W	
Input				
Voltage ^[1]	200~253VAC 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			
Fuse (Internal) ^[1]	T50A*2pcs			
	T30A*2pcs			
Power Factor	>0.99			
Input Power	28.8kVAmax	36kVAmax	43.2kVAmax	
Efficiency ^[1]	3P208 ~92.5%@750V, 3P208 ~91%@84A	3P208 ~92.5%@750V, 3P208 ~91%@105A	3P208 ~92.5%@750V, 3P208 ~91%@126A	
	3P400 ~92.7%@750V, 3P400 ~92%@84A	3P400 ~92.7%@750V, 3P400 ~92%@105A	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	8V@3.7A			
CC Resolution	1mA			

MODEL	SP750VDC24000W	SP750VDC30000W	SP750VDC36000W
CC Accuracy	<0.2%Imax(60mA)	<0.2%Imax(75mA)	<0.2%Imax(90mA)
CV Resolution	<4mV		
CV Accuracy	<0.1%Umax(750mV)		
CP Resolution	0.5W		
CP Accuracy	<0.5%Pmax(6000mW)	<0.5%Pmax(7500mW)	<0.5%Pmax(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	1.5kVDC		
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)	423.0x265.0x740.0 mm		
Package Dimensions (WxHxD)	549.0x531.0x946.0 mm		
Unit Weight	75kg	86kg	97kg
Shipping Weight	101kg	112kg	113kg
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 10% to 90% of rated output.

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

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

High Power DC Power Supply

MODEL		SP1000VDC12000W	SP1000VDC24000W
Input			
Voltage ^[1]		187~253VAC	200~253VAC
		340~460VAC	
Current ^[1]		3P208 L1-60A, L2,L3-38A	3P208 L1-60A, L2,L3-103A
		3P400 L1-30A, L2,L3-19A	3P400 L1-30A, L2,L3-49A
Frequency		45~65Hz	
Connection		3ph, PE	
Fuse (Internal) ^[1]		T50A*2pcs	
		T30A*2pcs	
Power Factor		>0.99	
Input Power		14.5kVAmax	29kVAmax
Efficiency ^[1]		3P208 ~92%@1000V, 3P208 ~90%@32A	3P208 ~92%@1000V, 3P208 ~90%@64A
		3P400 ~93.5%@1000V, 3P400 ~92%@32A	3P400 ~93.5%@1000V, 3P400 ~92%@64A
Output			
Voltage Range		0~1000V	
Current Range		0~32A	0~64A
Power Range		0~12000W	0~24000W
Max. Setup Range	Voltage	0~1050V(0~105%)	
	Current	0~33.6A(0~105%)	0~67.2A(0~105%)
	Power	0~12600W(0~105%)	0~26400W(0~105%)
	Internal Resistance	0~937.5Ω	0~468.75Ω
Accuracy	Voltage	<0.1%Umax(1000mV)	
	Current	<0.2%Imax(64mA)	<0.2%Imax(128mA)
	Power	<1%+90W	<1%+180W
	Internal Resistance	R<2% Rmax, I<0.3% Imax	
Line Regulation	Voltage	<0.02%Umax(200mV)	
	Current	<0.05%Imax(16mA)	<0.05%Imax(32mA)
	Power	<0.05%Pmax	
Load Regulation ^[2]	Voltage	<0.05%Umax(500mV) @Rated Voltage, <0.08%Umax(800mV) @Rated Current	
	Current	<0.15%Imax(48mA)	<0.15%Imax(96mA)
	Power	<0.75%Pmax	
Rise Time	Voltage	<15ms (No Load) <80ms (Full Load)	
Drop Time	Voltage	<1700ms (No Load) <15ms (Full Load)	
Transient Response Time ^[3]	Voltage	≤2ms/10V	
Display Resolution	Voltage	0.01V	
	Current	0.001A	
	Power	1W	
	Internal Resistance	0.001Ω	
Measurement Accuracy	Voltage	<0.1%Umax(1V)	
	Current	<0.2%Imax(64mA)	<0.2%Imax(128mA)
	Power	<0.5%Pmax	
	Internal Resistance	<0.4%Rmax	
Ripple ^[4]	Voltage	<1500mVpp, <320mVrms	
	Current	<22mArms	<26mArms
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	

MODEL	SP1000VDC12000W	SP1000VDC24000W
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, External control Enable/Disable	
Status Signals	CV, OVP, OT	
Sampling Rate of Input & Output	45Hz	
Galvanic Isolation to the Device	1.5kVDC	
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@45°C	
Fan Noise	45dB Idle; 73dB Max;	48dB Idle; 80dB Max;
Mechanical		
Dimensions (WxHxD)	423.0x133.0x700.0 mm	423.0x265.0x740.0 mm
Package Dimensions (WxHxD)	665.0x347.0x1009.0 mm	549.0x531.0x946.0 mm
Unit Weight	34kg	75kg
Shipping Weight	43kg	101kg
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 10% to 90% of rated output.

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

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

High Power DC Power Supply

MODEL		SP1500VDC12000W	SP1500VDC18000W
Input			
Voltage ^[1]		187~253VAC	
		340~460VAC	
Current ^[1]		3P208 L1-60A, L2,L3-38A	3P208 L1,L2,L3-60A
		3P400 L1-30A, L2,L3-19A	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		14.5kVAmax	21.75kVAmax
Efficiency ^[1]		3P208 ~92%@1500V, 3P208 ~90.5%@21A	3P208 ~92%@1500V, 3P208 ~90%@32A
		3P400 ~92.5%@1500V, 3P400 ~91.5%@21A	3P400 ~93.5%@1500V, 3P400 ~92%@32A
Output			
Voltage Range		0~1500V	
Current Range		0~21A	0~32A
Power Range		0~12000W	0~18000W
Max. Setup Range	Voltage	0~1575V(0~105%)	
	Current	0~22.05A(0~105%)	0~33.6A(0~105%)
	Power	0~12600W(0~105%)	0~18900W(0~105%)
	Internal Resistance	0~2142Ω	0~1406.25Ω
Accuracy	Voltage	<0.1%Umax(1.5V)	
	Current	<0.2%Imax(42mA)	<0.2%Imax(64mA)
	Power	<1%+90W	<0.5%+90W
	Internal Resistance	R<2% Rmax, l<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	<1950mVpp, <650mVrms
	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	

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	1.5kVDC	
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;	45dB Idle; 75dB Max;
Mechanical		
Dimensions (WxHxD)	423.0x133.0x700.0 mm	
Package Dimensions (WxHxD)	665.0x347.0x1009.0 mm	
Unit Weight	34kg	45kg
Shipping Weight	43kg	54kg
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 10% to 90% of rated output.

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

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

High Power DC Power Supply

MODEL		SP1500VDC24000W	SP1500VDC36000W
Input			
Voltage ^[1]		200~253VAC	
		340~460VAC	
Current ^[1]		3P208 L1-60A, L2,L3-103A	3P208 L1,L2,L3-125A
		3P400 L1-30A, L2,L3-49A	3P400 L1,L2,L3-63A
Frequency		45~65Hz	
Connection		3ph, PE	
Fuse (Internal) ^[1]		T50A*2pcs	
		T25A*2pcs	T30A*2pcs
Power Factor		>0.99	
Input Power		29kVAmax	43.5kVAmax
Efficiency ^[1]		3P208 ~92%@1500V, 3P208 ~90.5%@42A	3P208 ~92%@1500V, 3P208 ~90%@64A
		3P400 ~92.5%@1500V, 3P400 ~91.5%@42A	3P400 ~93.5%@1500V, 3P400 ~92%@64A
Output			
Voltage Range		0~1500V	
Current Range		0~42A	0~64A
Power Range		0~24000W	0~36000W
Max. Setup Range	Voltage	0~1575V(0~105%)	
	Current	0~44.1A(0~105%)	0~67.2A(0~105%)
	Power	0~26400W(0~105%)	0~37800W(0~105%)
	Internal Resistance	0~1071Ω	0~703.13Ω
Accuracy	Voltage	<0.1%Umax(1.5V)	
	Current	<0.2%Imax(84mA)	<0.2%Imax(128mA)
	Power	<1%+180W	
	Internal Resistance	R<2% Rmax, I<0.3% Imax	
Line Regulation	Voltage	<0.02%Umax(300mV)	
	Current	<0.05%Imax(21mA)	<0.05%Imax(32mA)
	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(96mA)
	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(84mA)	<0.2%Imax(128mA)
	Power	<0.5%Pmax	
	Internal Resistance	<0.4%Rmax	
Ripple ^[4]	Voltage	<2500mVpp, <600mVrms	<1950mVpp, <650mVrms
	Current	<22mArms	<26mArms
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	

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	1.5kVDC	
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)	423.0x265.0x740.0 mm	
Package Dimensions (WxHxD)	549.0x531.0x946.0 mm	
Unit Weight	75kg	97kg
Shipping Weight	101kg	113kg
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 10% to 90% of rated output.

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

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

High Power DC Power Supply

MODEL		SP2250VDC18000W	SP2250VDC36000W
Input			
Voltage ^[1]		187~253VAC	200~253VAC
		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	
Fuse (Internal) ^[1]		T50A*2pcs	
		T25A*2pcs	
Power Factor		>0.99	
Input Power		21.75kVAmax	43.5kVAmax
Efficiency ^[1]		3P208 ~92%@2250V, 3P208 ~90.5%@21A	3P208 ~92%@2250V, 3P208 ~90.5%@42A
		3P400 ~92.5%@2250V, 3P400 ~91.5%@21A	3P400 ~92.5%@2250V, 3P400 ~91.5%@42A
Output			
Voltage Range		2250V	
Current Range		0~21A	0~42A
Power Range		0~18000W	0~36000W
Max. Setup Range	Voltage	0~2362.5V(0-105%)	
	Current	0~22.05A(0-105%)	0~44.1A(0-105%)
	Power	0~18900W(0~105%)	0~37800W(0~105%)
	Internal Resistance	0~3214Ω	0~1607Ω
Accuracy	Voltage	<0.1% Umax/(2.25V)	
	Current	<0.2% I _{max} (42mA)	<0.2% I _{max} (84mA)
	Power	<0.5%+90W	<1%+180W
	Internal Resistance	R<2% R _{max} , I<0.3% I _{max}	
Line Regulation	Voltage	<0.02% Umax(675mV)	
	Current	<0.05% I _{max} (10.5mA)	<0.05% I _{max} (21mA)
	Power	<0.05%P _{max}	
Load Regulation ^[2]	Voltage	<0.05%Umax(1125mV) @Rated Voltage, <0.08%Umax(1800mV) @Rated Current	
	Current	<0.15%I _{max} (31.5mA)	<0.15%I _{max} (63mA)
	Power	<0.75%P _{max}	
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%I _{max} (42mA)	<0.2%I _{max} (84mA)
	Power	<0.5%P _{max}	
	Internal Resistance	<0.4%R _{max}	
Ripple ^[4]	Voltage	<3200mVpp, <750mVrms	
	Current	<11mA _{rms}	<22mA _{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	

MODEL	SP2250VDC18000W	SP2250VDC36000W
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	1.5kVDC	
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;	48dB Idle; 82dB Max;
Mechanical		
Dimensions (WxHxD)	423.0x133.0x700.0 mm	423.0x265.0x740.0 mm
Package Dimensions (WxHxD)	665.0x347.0x1009.0 mm	549.0x531.0x946.0 mm
Unit Weight	45kg	97kg
Shipping Weight	54kg	113kg
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 10% to 90% of rated output.

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

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

APM Technologies (Dongguan) Co., Ltd

Add: #7, Link Information Industry Park, Shuilianshan Road,
Nancheng, Dongguan, Guangdong, China

Tel: +86 769-2202 8588 ext:2892 Fax: +86 769-2202 6771

E-mail: overseas@apmtech.cn Web: en.apmtech.cn