

Efficiency, Stability, Reliable, Precision

Middle Power DC Power Supply

>>> Product specification sheet







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■ 600W in 1U

Model	SP20VDC600W	SP32VDC600W	SP40VDC600W	SP75VDC600W	SP150VDC600W	SP200VDC600W
			INPUT			
Input Voltage	90~265VAC					
nput Frequency	47~63Hz					
Power Factor	>0.98					
nput Power	750VA(MAX)					
			OUTPUT			
Output Voltage Range	0~20V	0~32V	0~40V	0~75V	0~150V	0~200V
Output Current Range	0~60A	0~50A	0~40A	0~25A	0~10A	0~8A
Output Power Range	0~600W					
/oltage Load Regulation	10mV	10mV	10mV	10mV	15mV	15mV
Current Load Regulation	60mA	50mA	40mA	25mA	10mA	8mA
/oltage Display Resolution	0.1mV	0.1mV	0.1mV	0.1mV	1mV	1mV
Current Display Resolution	0.2mA	0.2mA	0.2mA	0.2mA	0.2mA	0.1mA
/oltage Programmable Resolution	1.5mV	1.5mV	1.5mV	1.5mV	3mV	3mV
Current Programmable Resolution	2mA	2mA	2mA	1mA	1mA	1mA
Voltage Setting Accuracy [1]	0.05%+15mV	0.05%+15mV	0.05%+15mV	0.05%+15mV	0.1%+15mV	0.1%+15mV
Current Setting Accuracy	0.1%+60mA	0.1%+50mA	0.1%+40mA	0.1%+25mA	0.1%+10mA	0.1%+8mA
Voltage Measurement Accuracy [1]	0.05%+15mV	0.05%+15mV	0.05%+15mV	0.05%+15mV	0.1%+15mV	0.1%+15mV
Current Measurement Accuracy	0.1%+60mA	0.1%+50mA	0.1%+40mA	0.1%+25mA	0.1%+10mA	0.1%+8mA
Voltage Ripple [2]	40mVp-p 6mVrms	40mVp-p 6mVrms	40mVp-p 6mVrms	40mVp-p 6mVrms	120mVp-p 40mVrms	120mVp-p 40mVrms
Current Ripple [3]	60mA (Full Range) 20mA (TYP Value)	50mA (Full Range) 20mA (TYP Value)	40mA (Full Range) 20mA (TYP Value)	25mA (Full Range) 10mA (TYP Value)	40mA (Full Range) 10mA (TYP Value)	40mA (Full Range) 10mA (TYP Value)
ine Regulation(Voltage)	0.005%+1mV	0.005%+1mV	0.005%+1mV	0.005%+1mV	0.02%+8mV	0.02%+8mV
ine Regulation(Current)	4mA	4mA	4mA	4mA	10mA	30mA
/oltage Temperature Coefficient [4]	100ppm/°C					
Current Temperature Coefficient [4]	150ppm/°C					
OVM Resolution	0.1mV	0.1mV	0.1mV	0.1mV	4mV	1mV
DVM Precision [1]	0.05%+15mV	0.05%+15mV	0.05%+15mV	0.05%+15mV	0.1%+30mV	0.1%+15mV
Operating Mode	Constant voltage (CV)	Constant current (CC)				
Remote Compensation	4V MAX					
Master-slave Control	Yes					
Response (Voltage Increase)	≤10ms	≤12ms	≤10ms	≤10ms	≤25ms	≤30ms
Response (Voltage Drop)	≤150ms (no load) ≤20ms (full load)	≤150ms (no load) ≤20ms (full load)	≤150ms (no load) ≤20ms (full load)	≤160ms (no load) ≤20ms (full load)	≤400ms (no load) ≤32ms (full load)	≤600ms (no load) ≤30ms (full load)
Load Transient Recovery Time [5]	≤2ms	≤2ms	≤2ms	≤2ms	≤3ms	≤3ms
Command Response Time	50ms					
Series Capability [6]	Up to 10 units	Up to 8 units	Up to 6 units			
Parallel Capability	Up to 10 units					
Current Sharing [7]	9V	9V	12V	20V	40V	50V
Efficiency (full load)	85%	86%	87%	88%	88%	87%
			OTHER			
Protection Function	OVP/OCP/OTP/OPP/S	CP				
Fold Back Function	Yes				104 105) (404 405)
nput Fuse	20A, 125VAC/250VAC, fast-acting type	30A, 125VAC/250VAC, fast-acting type	30A, 125VAC/250VAC, fast-acting type	30A, 125VAC/250VAC, fast-acting type	10A, 125VAC/250VAC, fast-acting type	10A, 125VAC/250VA(fast-acting type
Net Weight	9.2kg	9.2kg	9.2kg	8.9kg	9.3kg	9.3kg
Accessories Weight	1.0kg					
Dimensions(WxHxD)	483.0x44.0x531.0 mm					
Communication Modes	1. RS232/RS485/USB/I	_AN; 2. RS232/RS485/	/USB/LAN/GPIB			
Operating Environment	Temperature 0~40°C, R	Relative Humidity 10%~90	%(no condensation); Pol	llution degree 2, Installation	on category II, Indoor use).
Cooling Mode	Forced air-cooling					
Altitude	2000m					

^{[1] %}output+offset, when output voltage less than 5V, offset voltage is 30mV.

^[2] Vp-p@20MHz, Vrms@1.25MHz.

The 20V/32V/40V/75V models voltage ripple is 50mVp-p/6mVrms @ 1V. For the 600V and 800V models, the voltage ripple from 0~5V is out of the range show above.

^[3] Arms@1.25MHz, the TYP Value is measured at the rated output voltage with 100% resistive load, and the measured value at full range of output voltage with 100% resistive load is less than the Full Range value.

^{[4] 0~40°}C.

^[5] Time for output voltage to recover within 0.5%(0.75% @800V models) of its rated output for a load change from 10% to 90% of its rated output current. Voltage set point from 10% to 90% of rated output.

^[6] The communication must insulated users from output when using remote control and the output voltage exceeds 800VDC.

^[7] Current Share error le<(lav*2.5% + 5% F.S) A, F.S is the full scale of the current. lav=lsum/n, where lav is average current, Isum is total current and n is number of parallel units. Note: Output voltage must be higher than 30% of maximum output voltage when Current Share function properly. All specifications are subject to change without notice.

■ 1000W in 1U

Model	SP20VDC1000W	SP32VDC1000W	SP40VDC1000W	SP75VDC1000W	SP150VDC1000W	SP200VDC1000W
			INPUT			
nput Voltage	90~265VAC					
nput Frequency	47~63Hz					
Power Factor	>0.98					
nput Power	1300VA(MAX)					
			OUTPUT			
Output Voltage Range	0~20V	0~32V	0~40V	0~75V	0~150V	0~200V
Output Current Range	0~60A	0~50A	0~40A	0~25A	0~10A	0~8A
Output Power Range	0~1000W					
/oltage Load Regulation	10mV	10mV	10mV	10mV	15mV	15mV
Current Load Regulation	60mA	50mA	40mA	25mA	10mA	8mA
Voltage Display Resolution	0.1mV	0.1mV	0.1mV	0.1mV	1mV	1mV
Current Display Resolution	0.2mA	0.2mA	0.2mA	0.2mA	0.2mA	0.1mA
/oltage Programmable Resolution	1.5mV	1.5mV	1.5mV	1.5mV	3mV	3mV
Current Programmable Resolution	2mA	2mA	2mA	1mA	1mA	1mA
/oltage Setting Accuracy [1]	0.05%+15mV	0.05%+15mV	0.05%+15mV	0.05%+15mV	0.1%+15mV	0.1%+15mV
Current Setting Accuracy	0.1%+60mA	0.1%+50mA	0.1%+40mA	0.1%+25mA	0.1%+10mA	0.1%+8mA
/oltage Measurement Accuracy [1]	0.05%+15mV	0.05%+15mV	0.05%+15mV	0.05%+15mV	0.1%+15mV	0.1%+15mV
Current Measurement Accuracy	0.1%+60mA	0.1%+50mA	0.1%+40mA	0.1%+25mA	0.1%+10mA	0.1%+8mA
√oltage Ripple [2]	40mVp-p 6mVrms	40mVp-p 6mVrms	40mVp-p 6mVrms	40mVp-p 6mVrms	120mVp-p 40mVrms	120mVp-p 40mVrms
Current Ripple [3]	60mA (Full Range) 20mA (TYP Value)	50mA (Full Range) 20mA (TYP Value)	40mA (Full Range) 20mA (TYP Value)	25mA (Full Range) 10mA (TYP Value)	40mA (Full Range) 10mA (TYP Value)	40mA (Full Range) 10mA (TYP Value)
ine Regulation(Voltage)	0.005%+1mV	0.005%+1mV	0.005%+1mV	0.005%+1mV	0.02%+8mV	0.02%+8mV
ine Regulation(Current)	4mA	4mA	4mA	4mA	10mA	30mA
/oltage Temperature Coefficient [4]	100ppm/°C					
Current Temperature Coefficient [4]	150ppm/°C					
DVM Resolution	0.1mV	0.1mV	0.1mV	0.1mV	4mV	1mV
DVM Precision [1]	0.05%+15mV	0.05%+15mV	0.05%+15mV	0.05%+15mV	0.1%+30mV	0.1%+15mV
Operating Mode	Constant voltage (CV) /	Constant current (CC)				
Remote Compensation	4V MAX					
Master-slave Control	Yes					
Response (Voltage Increase)		≤12ms	≤10ms	≤10ms	≤25ms	≤30ms
Response (Voltage Drop)	≤150ms (no load) ≤20ms (full load)	≤150ms (no load) ≤15ms (full load)	≤150ms (no load) ≤15ms (full load)	≤160ms (no load) ≤15ms (full load)	≤400ms (no load) ≤25ms (full load)	≤600ms (no load) ≤40ms (full load)
oad Transient Recovery Time [5]	≤2ms	≤2ms	≤2ms	≤2ms	≤3ms	≤3ms
Command Response Time	50ms					
Series Capability [6]	Up to 10 units	Up to 8 units	Up to 6 units			
Parallel Capability	Up to 10 units					
Current Sharing [7]	9V	9V	12V	20V	40V	50V
Efficiency (full load)	85%	89%	89%	89%	89%	87%
indicatory (run locus)	0070	0070	OTHER	0070	0070	07 /0
Protection Function	OVP/OCP/OTP/OPP/S0	CP	O THEIR			
Fold Back Function	Yes					
nput Fuse	20A, 125VAC/250VAC, fast-acting type	30A, 125VAC/250VA fast-acting type				
let Weight	9.2kg	9.2kg	9.2kg	8.9kg	9.3kg	9.3kg
Accessories Weight	1.0kg					
Dimensions(WxHxD)	483.0x44.0x531.0 mm					
Communication Modes	1. RS232/RS485/USB/L	AN; 2. RS232/RS485/	USB/LAN/GPIB			
Operating Environment	Temperature 0~40°C, R	elative Humidity 10%~90	%(no condensation); Pol	lution degree 2, Installation	on category II, Indoor use).
Cooling Mode	Forced air-cooling					
	-					

- [1] %output+offset, when output voltage less than 5V, offset voltage is 30mV.

- [2] Vp-p@20MHz, Vrms@1.25MHz.

 The 20V/32V/40V/75V models voltage ripple is 50mVp-p/6mVrms @ 1V. For the 600V and 800V models, the voltage ripple from 0~5V is out of the range show above.

 [3] Arms@1.25MHz, the TYP Value is measured at the rated output voltage with 100% resistive load, and the measured value at full range of output voltage with 100% resistive load. is less than the Full Range value.
- [4] 0~40°C.
- [5] Time for output voltage to recover within 0.5%(0.75% @800V models) of its rated output for a load change from 10% to 90% of its rated output current. Voltage set point from 10% to 90% of rated output.
- [6] The communication must insulated users from output when using remote control and the output voltage exceeds 800VDC.
- [7] Current Share error le<(lav*2.5% + 5% F.S) A, F.S is the full scale of the current. lav=lsum/n, where lav is average current, Isum is total current and n is number of parallel units. Note: Output voltage must be higher than 30% of maximum output voltage when Current Share function properly. All specifications are subject to change without notice.

■ 1200W in 1U

90~265VAC 47~63Hz >0.98 1500VA(MAX)		INPUT			
47~63Hz >0.98					
>0.98					
1500VA(MAX)					
		OUTPUT			
0~20V	0~32V	0~40V	0~75V	0~150V	0~200V
0~60A	0~50A	0~40A	0~25A	0~10A	0~8A
0~1200W					
10mV	10mV	10mV	10mV	15mV	15mV
60mA	50mA	40mA	25mA	10mA	8mA
0.1mV	0.1mV	0.1mV	0.1mV	1mV	1mV
0.2mA	0.2mA	0.2mA	0.2mA	0.2mA	0.1mA
1.5mV	1.5mV	1.5mV	1.5mV	3mV	3mV
2mA	2mA	2mA	1mA	1mA	1mA
0.05%+15mV	0.05%+15mV	0.05%+15mV	0.05%+15mV	0.1%+15mV	0.1%+15mV
0.1%+60mA	0.1%+50mA	0.1%+40mA	0.1%+25mA	0.1%+10mA	0.1%+8mA
0.05%+15mV	0.05%+15mV	0.05%+15mV	0.05%+15mV	0.1%+15mV	0.1%+15mV
	0.1%+50mA	0.1%+40mA	0.1%+25mA	0.1%+10mA	0.1%+8mA
40mVp-p 6mVrms	40mVp-p 6mVrms	40mVp-p 6mVrms	40mVp-p 6mVrms	120mVp-p 40mVrms	120mVp-p 40mVrms
60mA (Full Range) 20mA (TYP Value)	50mA (Full Range) 20mA (TYP Value)	40mA (Full Range) 20mA (TYP Value)	25mA (Full Range) 10mA (TYP Value)	40mA (Full Range) 10mA (TYP Value)	40mA (Full Range) 10mA (TYP Value)
0.005%+1mV	0.005%+1mV	0.005%+1mV	0.005%+1mV	0.02%+8mV	0.02%+8mV
4mA	4mA	4mA	4mA	10mA	30mA
100ppm/°C					
150ppm/°C					
0.1mV	0.1mV	0.1mV	0.1mV	4mV	1mV
0.05%+15mV	0.05%+15mV	0.05%+15mV	0.05%+15mV	0.1%+30mV	0.1%+15mV
Constant voltage (CV) /	Constant current (CC)				
4V MAX					
Yes					
) ≤10ms	≤10ms	≤10ms	≤10ms	≤25ms	≤30ms
≤150ms (no load) ≤12ms (full load)	≤150ms (no load) ≤12ms (full load)	≤150ms (no load) ≤12ms (full load)	≤160ms (no load) ≤12ms (full load)	≤400ms (no load) ≤21ms (full load)	≤600ms (no load) ≤36ms (full load)
≤2ms	≤2ms	≤2ms	≤2ms	≤3ms	≤3ms
50ms					
Up to 10 units	Up to 10 units	Up to 10 units	Up to 10 units	Up to 8 units	Up to 6 units
Up to 10 units					
9V	9V	12V	20V	40V	50V
84%	84%	89% OTHER	90%	89%	90%
OVP/OCP/OTP/OPP/S	CP				
Yes					
20A, 125VAC/250VAC, fast-acting type	20A, 125VAC/250VAC, fast-acting type	30A, 125VAC/250VAC, fast-acting type	30A, 125VAC/250VAC, fast-acting type	30A, 125VAC/250VAC, fast-acting type	30A, 125VAC/250VAC, fast-acting type
9.2kg	9.2kg	9.2kg	8.9kg	9.3kg	9.3kg
1.0kg					
483.0x44.0x531.0 mm					
	AN; 2. RS232/RS485/	USB/LAN/GPIB			
			lution degree 2, Installation	on category II, Indoor use	
	,	, , , , , , , , , , , , , , , , , , , ,	, , , , , , , , , , , , , , , , , , , ,	, , ,	
Forced air-cooling					
1 1	0.1mV 0.2mA 1.5mV 0.2mA 0.05%+15mV 0.1%+60mA 0.05%+15mV 0.1%+60mA 40mVp-p 6mVrms 60mA (Full Range) 20mA (TYP Value) 0.005%+1mV 4mA 4100ppm/°C 0.1mV 0.05%+15mV Constant voltage (CV) // 4V MAX Yes 0≤150ms (no load) ≤12ms (full load) ≤2ms 50ms Up to 10 units Up to 10 units 9V 84% OVP/OCP/OTP/OPP/St Yes 20A, 125VAC/250VAC, fast-acting type 9.2kg 1.0kg 483.0x44.0x531.0 mm	0.1mV	0.1mV	0.1mV	0.1mV

- [1] %output+offset, when output voltage less than 5V, offset voltage is 30mV.

- [2] Vp-p@20MHz, Vrms@1.25MHz.

 The 20V/32V/40V/75V models voltage ripple is 50mVp-p/6mVrms @ 1V. For the 600V and 800V models, the voltage ripple from 0~5V is out of the range show above.

 [3] Arms@1.25MHz, the TYP Value is measured at the rated output voltage with 100% resistive load, and the measured value at full range of output voltage with 100% resistive load. is less than the Full Range value.
- [4] 0~40°C.
- [5] Time for output voltage to recover within 0.5%(0.75% @800V models) of its rated output for a load change from 10% to 90% of its rated output current. Voltage set point from 10% to 90% of rated output.
- [6] The communication must insulated users from output when using remote control and the output voltage exceeds 800VDC.
- [7] Current Share error le<(lav*2.5% + 5% F.S) A, F.S is the full scale of the current. lav=lsum/n, where lav is average current, Isum is total current and n is number of parallel units. Note: Output voltage must be higher than 30% of maximum output voltage when Current Share function properly. All specifications are subject to change without notice.

■ 1500W in 1U

Model	SP75VDC1500W	SP150VDC1500W	SP200VDC1500W
	0173720130017	INPUT	G1 2007 D G 1300 W
Input Voltage	90~265VAC	INI OT	
Input Frequency	47~63Hz		
Power Factor	>0.98		
Input Power	1900VA(MAX)		
Input i owoi	1000 Vi (livii U.)	OUTPUT	
Output Voltage Range	0~75V	0~150V	0~200V
Output Current Range	0~25A	0~10A	0~8A
Output Power Range	0~1500W	0 107	
Voltage Load Regulation	10mV	15mV	15mV
Current Load Regulation	25mA	10mA	8mA
Voltage Display Resolution	0.1mV	1mV	1mV
Current Display Resolution	0.2mA	0.2mA	0.1mA
Voltage Programmable Resolution		3mV	3mV
		1mA	1mA
Current Programmable Resolution Voltage Setting Accuracy [1]	0.05%+15mV	0.05%+15mV	0.05%+15mV
	0.1%+25mA	0.1%+10mA	0.1%+8mA
Current Setting Accuracy Voltage Measurement Accuracy		0.1%+15mV	0.1%+0ffA 0.1%+15mV
Current Measurement Accuracy	0.1%+25mA	0.1%+10mA	0.1%+8mA
Voltage Ripple [2]	40mVp-p 6mVrms	120mVp-p 40mVrms	120mVp-p 40mVrms
Current Ripple [3]	25mA (Full Range) 10mA (TYP Value)	40mA (Full Range) 10mA (TYP Value)	40mA (Full Range) 10mA (TYP Value)
Line Regulation(Voltage)	0.005%+2mV	0.02%+8mV	0.02%+8mV
Line Regulation(Current)	4mA	10mA	30mA
Voltage Temperature Coefficient 14	100ppm/°C		
Current Temperature Coefficient [4]	150ppm/°C		
DVM Resolution	0.1mV	4mV	1mV
DVM Precision [1]	0.05%+15mV	0.1%+30mV	0.1%+15mV
Operating Mode	Constant voltage (CV) / Constant current (CC)		
Remote Compensation	4V MAX		
Master-slave Control	Yes		
Response (Voltage Increase)	≤10ms	≤25ms	≤30ms
Response (Voltage Drop)	≤160ms (no load) ≤10ms (full load)	≤400ms (no load) ≤18ms (full load)	≤600ms (no load) ≤30ms (full load)
Load Transient Recovery Time [5]	≤2ms	≤3ms	≤3ms
Command Response Time	50ms		
Series Capability [6]	Up to 10 units	Up to 8 units	Up to 6 units
Parallel Capability	Up to 10 units		
Current Sharing [7]	20V	40V	50V
Efficiency (full load)	91%	90%	91%
		OTHER	
Protection Function	OVP/OCP/OTP/OPP/SCP		
Fold Back Function	Yes		
Input Fuse	30A, 125VAC/250VAC, fast-acting type		
Net Weight	8.9kg	9.3kg	9.3kg
Accessories Weight	1.0kg		
Dimensions(WxHxD)	483.0x44.0x531.0 mm		
Communication Modes	1. RS232/RS485/USB/LAN; 2. RS232/RS485/	USB/LAN/GPIB	
Operating Environment		0%(no condensation); Pollution degree 2, Installation	on category II, Indoor use.
Cooling Mode	Forced air-cooling		
Altitude	2000m		
	ut voltage less than 5V, offset voltage is 30mV.		

- [1] %output+offset, when output voltage less than 5V, offset voltage is 30mV.

- [2] Vp-p@20MHz, Vrms@1.25MHz.

 The 20V/32V/40V/75V models voltage ripple is 50mVp-p/6mVrms @ 1V. For the 600V and 800V models, the voltage ripple from 0~5V is out of the range show above.

 [3] Arms@1.25MHz, the TYP Value is measured at the rated output voltage with 100% resistive load, and the measured value at full range of output voltage with 100% resistive load. is less than the Full Range value.
- [4] 0~40°C.
- [5] Time for output voltage to recover within 0.5%(0.75% @800V models) of its rated output for a load change from 10% to 90% of its rated output current. Voltage set point from 10% to 90% of rated output.
- [6] The communication must insulated users from output when using remote control and the output voltage exceeds 800VDC.
- [7] Current Share error le<(lav*2.5% + 5% F.S) A, F.S is the full scale of the current. lav=lsum/n, where lav is average current, Isum is total current and n is number of parallel units. Note: Output voltage must be higher than 30% of maximum output voltage when Current Share function properly. All specifications are subject to change without notice.

■ 1600W in 1U

Model	SP32VDC1600W		SP40VDC1600W
		INPUT	
Input Voltage	90~265VAC		
Input Frequency	47~63Hz		
Power Factor	>0.98		
Input Power	2000VA(MAX)		
input i owei		DUTPUT	
Output Voltage Range	0~32V	OIFUI	0~40V
Output Current Range			
	0~50A 0~1600W		0~40A
Output Power Range			
Voltage Load Regulation	10mV		40mA
Current Load Regulation	50mA		40IIIA
Voltage Display Resolution	0.1mV		
Current Display Resolution	0.2mA		
Voltage Programmable Resolution			
Current Programmable Resolution			
Voltage Setting Accuracy [1]	0.05%+15mV		
Current Setting Accuracy	0.1%+50mA		0.1%+40mA
Voltage Measurement Accuracy [1]			0.05%+15mV
Current Measurement Accuracy	0.1%+50mA		0.1%+40mA
Voltage Ripple [2]	40mVp-p 6mVrms		
Current Ripple [3]	50mA (Full Range) 20mA (TYP Value)		40mA (Full Range) 20mA (TYP Value)
Line Regulation(Voltage)	0.005%+1mV		
Line Regulation(Current)	4mA		
Voltage Temperature Coefficient 14	100ppm/°C		
Current Temperature Coefficient [4]	150ppm/°C		
DVM Resolution	0.1mV		
DVM Precision [1]	0.05%+15mV		
Operating Mode	Constant voltage (CV) / Constant current (CC)		
Remote Compensation	4V MAX		
Master-slave Control	Yes		
Response (Voltage Increase)	≤12ms		≤10ms
Response (Voltage Drop)	≤150ms (no load) ≤10ms (full load)		
Load Transient Recovery Time [5]	≤2ms		
Command Response Time	50ms		
Series Capability [6]	Up to 10 units		
Parallel Capability	Up to 10 units		
Current Sharing [7]	9V		12V
Efficiency (full load)	89%		90%
Emoiority (run loud)		OTHER	30 /6
Protection Function	OVP/OCP/OTP/OPP/SCP	OTTIER	
Fold Back Function	Yes		
Input Fuse	30A, 125VAC/250VAC, fast-acting type		
Net Weight	9.2kg		
Accessories Weight	1.0kg		
Dimensions(WxHxD)	483.0x44.0x531.0 mm		
Communication Modes	1. RS232/RS485/USB/LAN; 2. RS232/RS485/USB/L/	AN/GPIB	
Operating Environment	Temperature 0~40°C, Relative Humidity 10%~90%(no o		ution degree 2, Installation category II, Indoor use.
Cooling Mode	Forced air-cooling		
Altitude	2000m		
	ut voltage less than 5V offset voltage is 30mV		

- [1] %output+offset, when output voltage less than 5V, offset voltage is 30mV.

- [2] Vp-p@20MHz, Vrms@1.25MHz.

 The 20V/32V/40V/75V models voltage ripple is 50mVp-p/6mVrms @ 1V. For the 600V and 800V models, the voltage ripple from 0~5V is out of the range show above.

 [3] Arms@1.25MHz, the TYP Value is measured at the rated output voltage with 100% resistive load, and the measured value at full range of output voltage with 100% resistive load. is less than the Full Range value.
- [4] 0~40°C.
- [5] Time for output voltage to recover within 0.5%(0.75% @800V models) of its rated output for a load change from 10% to 90% of its rated output current. Voltage set point from 10% to 90% of rated output.
- [6] The communication must insulated users from output when using remote control and the output voltage exceeds 800VDC.
- [7] Current Share error le<(lav*2.5% + 5% F.S) A, F.S is the full scale of the current. lav=lsum/n, where lav is average current, Isum is total current and n is number of parallel units. Note: Output voltage must be higher than 30% of maximum output voltage when Current Share function properly. All specifications are subject to change without notice.

■ 1000W in 2U(1)

Model	SPS32VDC1000W	SPS40VDC1000W	SPS80VDC1000W	SPS120VDC1000W
		INPUT		
Input Voltage	90~265VAC			
Input Frequency	47~63Hz			
Power Factor	>0.98	>0.98	>0.97	>0.98
Input Power	1500VA(MAX)	1300VA(MAX)	1200VA(MAX)	1300VA(MAX)
		OUTPUT		
Output Voltage Range	0~32V	0~40V	0~80V	0~120V
Output Current Range	0~200A	0~120A	0~60A	0~40A
Output Power Range	0~1000W			
Voltage Load Regulation	30mV	15mV	15mV	15mV
Current Load Regulation	200mA	120mA	60mA	40mA
Voltage Display Resolution	0.1mV	0.1mV	0.1mV	1mV
Current Display Resolution	1mA	1mA	0.2mA	0.1mA
Voltage Programmable Resolution	1mV	1mV	1.5mV	3mV
Current Programmable Resolution	2 4	3mA	2mA	1mA
Voltage Setting Accuracy [1]	0.05%+15mV	0.05%+15mV	0.05%+15mV	0.1%+15mV
Current Setting Accuracy	0.1%+200mA	0.1%+120mA	0.1%+60mA	0.1%+40mA
Voltage Measurement Accuracy [1]	0.05%+15mV	0.05%+15mV	0.05%+15mV	0.1%+15mV
Current Measurement Accuracy	0.1%+200mA	0.1%+120mA	0.1%+60mA	0.1%+40mA
Voltage Ripple [2]	60mVp-p 10mVrms	40mVp-p 6mVrms	40mVp-p 6mVrms	80mVp-p 15mVrms
Current Ripple [3]	400mA (Full Range) 200mA (TYP Value)	150mA (Full Range) 20mA (TYP Value)	50mA (Full Range) 10mA (TYP Value)	60mA (Full Range) 10mA (TYP Value)
Line Regulation(Voltage)	0.01%+8mV	0.02%+8mV	0.01%+8mV	0.02%+8mV
Line Regulation(Current)	200mA	30mA	30mA	40mA
Voltage Temperature Coefficient [4]	100ppm/°C			
Current Temperature Coefficient [4]	150ppm/°C			
DVM Resolution	0.1mV	0.1mV	0.1mV	1mV
DVM Precision [1]	0.05%+15mV	0.05%+15mV	0.05%+15mV	0.1%+15mV
Operating Mode	Constant voltage (CV) / Constant cu	urrent (CC)		
Remote Compensation	4V MAX	4V MAX	4V MAX	5V MAX
Master-slave Control	Yes		10 100 00	0.0000000000000000000000000000000000000
Response (Voltage Increase)	≤20ms (no load) ≤40ms (full load)	≤10ms	≤15ms	≤20ms
Response (Voltage Drop)	≤500ms (no load) ≤45ms (full load)	≤350ms (no load) ≤10ms (full load)	≤450ms (no load) ≤30ms (full load)	≤350ms (no load) ≤21ms (full load)
Load Transient Recovery Time [5]	≤2ms			
Command Response Time	50ms			
Series Capability [6]	Up to 10 units			
Parallel Capability	Up to 10 units			
Current Sharing [7]	12V	12V	20V	30V
Efficiency (full load)	85%	87%	89%	88%
		OTHER	00 /0	0070
Protection Function	OVP/OCP/OTP/OPP/SCP	- THER		
Fold Back Function	No(customers can purchase other accessorie to achieve this function, please consult the	yes	Yes	Yes
Input Fuse	salesrepresentative for details) 20A, 125VAC/250VAC, fast-acting type	30A, 125VAC/250VAC, fast-acting type	30A, 125VAC/250VAC, fast-acting type	30A, 125VAC/250VAC, fast-acting type
Net Weight	14.7kg	14.7kg		13.2kg
	•	1+./ Ny	13.2kg	10.2kg
Accessories Weight	1.0kg	492 0v97 0v626 0	492 0v07 0vE04 0	192 0.07 0.0504 0
Dimensions(WxHxD)	483.0x87.0x626.0 mm	483.0x87.0x626.0 mm	483.0x87.0x581.0 mm	483.0x87.0x581.0 mm
	· ·	S232/RS485/USB/LAN/GPIB	Della Constanting	
Operating Environment	Temperature 0~40°C, Relative Hum	idity 10%~90%(no condensation)	; Pollution degree 2, Installation cate	egory II, Indoor use.
Cooling Mode	Forced air-cooling			

- [1] %output+offset, when output voltage less than 5V, offset voltage is 30mV.

- [2] Vp-p@20MHz, Vrms@1.25MHz.

 The 20V/32V/40V/75V models voltage ripple is 50mVp-p/6mVrms @ 1V. For the 600V and 800V models, the voltage ripple from 0~5V is out of the range show above.

 [3] Arms@1.25MHz, the TYP Value is measured at the rated output voltage with 100% resistive load, and the measured value at full range of output voltage with 100% resistive load. is less than the Full Range value.
- [4] 0~40°C.
- [5] Time for output voltage to recover within 0.5%(0.75% @800V models) of its rated output for a load change from 10% to 90% of its rated output current. Voltage set point from 10% to 90% of rated output.
- [6] The communication must insulated users from output when using remote control and the output voltage exceeds 800VDC.
- [7] Current Share error le<(lav*2.5% + 5% F.S) A, F.S is the full scale of the current. lav=lsum/n, where lav is average current, Isum is total current and n is number of parallel units. Note: Output voltage must be higher than 30% of maximum output voltage when Current Share function properly. All specifications are subject to change without notice.

■ 1000W in 2U(2)

Model	SPS150VDC1000W	SPS200VDC1000W	SPS600VDC1000W	SPS800VDC1000W
		INPUT		
nput Voltage	90~265VAC			
nput Frequency	47~63Hz			
Power Factor	>0.98			
nput Power	1300VA(MAX)			
		OUTPUT		
Output Voltage Range	0~150V	0~200V	0~600V	0~800V
Output Current Range	0~30A	0~24A	0~10A	0~7.5A
Output Power Range	0~1000W			
/oltage Load Regulation	15mV	15mV	30mV	200mV
Current Load Regulation	30mA	24mA	10mA	20mA
/oltage Display Resolution	1mV			
Current Display Resolution	0.1mA			
/oltage Programmable Resolution	3mV	4mV	12mV	24mV
Current Programmable Resolution	1mA			
Voltage Setting Accuracy [1]	0.1%+15mV	0.1%+15mV	0.05%+150mV	0.05%+200mV
Current Setting Accuracy	0.1%+30mA	0.1%+24mA	0.1%+10mA	0.1%+7.5mA
/oltage Measurement Accuracy [1]	0.1%+15mV	0.1%+15mV	0.05%+150mV	0.05%+200mV
Current Measurement Accuracy	0.1%+30mA	0.1%+24mA	0.1%+10mA	0.1%+7.5mA
/oltage Ripple [2]	80mVp-p 15mVrms	150mVp-p 30mVrms	350mVp-p 40mVrms	800mVp-p 200mVrms
Current Ripple [3]	60mA (Full Range) 10mA (TYP Value)	50mA (Full Range) 20mA (TYP Value)	25mA (Full Range) 10mA (TYP Value)	25mA (Full Range) 10mA (TYP Value)
ine Regulation(Voltage)	0.02%+8mV	0.02%+8mV	0.01%+308mV	0.01%+40mV
ine Regulation(Current)	30mA	30mA	15mA	15mA
/oltage Temperature Coefficient [4]	100ppm/°C			
Current Temperature Coefficient [4]	150ppm/°C			
DVM Resolution	1mV	1mV	12mV	12mV
DVM Precision [1]	0.1%+15mV	0.1%+15mV	0.05%+150mV	0.05%+200mV
Operating Mode	Constant voltage (CV) / Consta	ant current (CC)		
Remote Compensation	5V MAX			
Master-slave Control	Yes			
Response (Voltage Increase)	≤25ms	≤30ms	≤60ms	≤60ms
Response (Voltage Drop)	≤500ms (no load) ≤25ms (full load)	≤500ms (no load) ≤35ms (full load)	≤800ms (no load) ≤110ms (full load)	≤800ms (no load) ≤60ms (full load)
Load Transient Recovery Time [5]	≤2ms	≤2ms	≤3ms	≤3ms
Command Response Time	50ms			
Series Capability ^[6]	Up to 8 units	Up to 6 units	Up to 2 units	Not Recommended
Parallel Capability	Up to 10 units			
Current Sharing [7]	40V	50V	200V	250V
Efficiency (full load)	88%	88%	86%	85%
		OTHER	55,5	
Protection Function	OVP/OCP/OTP/OPP/SCP			
Fold Back Function	Yes			
nput Fuse	30A, 125VAC/250VAC, fast-acting type			
Net Weight	13.2kg	14.7kg	13.2kg	13.2kg
Accessories Weight	1.0kg			
Dimensions(WxHxD)	483.0x87.0x581.0 mm	483.0x87.0x581.0 mm	483.0x87.0x626.0 mm	483.0x87.0x626.0 mm
Communication Modes	1. RS232/RS485/USB/LAN;	2. RS232/RS485/USB/LAN/GPIB		
Operating Environment	Temperature 0~40°C, Relative	Humidity 10%~90%(no condensation); Pollution degree 2, Installation cate	egory II, Indoor use.
Cooling Mode	Forced air-cooling			
Altitude	2000m			

- [1] %output+offset, when output voltage less than 5V, offset voltage is 30mV.

- [2] Vp-p@20MHz, Vrms@1.25MHz.

 The 20V/32V/40V/75V models voltage ripple is 50mVp-p/6mVrms @ 1V. For the 600V and 800V models, the voltage ripple from 0~5V is out of the range show above.

 [3] Arms@1.25MHz, the TYP Value is measured at the rated output voltage with 100% resistive load, and the measured value at full range of output voltage with 100% resistive load. is less than the Full Range value.
- [4] 0~40°C.
- [5] Time for output voltage to recover within 0.5%(0.75% @800V models) of its rated output for a load change from 10% to 90% of its rated output current. Voltage set point from 10% to 90% of rated output.
- [6] The communication must insulated users from output when using remote control and the output voltage exceeds 800VDC.
- [7] Current Share error le<(lav*2.5% + 5% F.S) A, F.S is the full scale of the current. lav=lsum/n, where lav is average current, Isum is total current and n is number of parallel units. Note: Output voltage must be higher than 30% of maximum output voltage when Current Share function properly. All specifications are subject to change without notice.

2000W in 2U(1)

Model	SP32VDC2000W	SP40VDC2000W	SP80VDC2000W	SP120VDC2000W
		INPUT		
nput Voltage	190~265VAC			
nput Frequency	47~63Hz			
Power Factor	>0.98			
nput Power	2600VA(MAX)	2400VA(MAX)	2400VA(MAX)	2400VA(MAX)
		OUTPUT		
Output Voltage Range	0~32V	0~40V	0~80V	0~120V
Output Current Range	0~200A	0~120A	0~60A	0~40A
Output Power Range	0~2000W			
/oltage Load Regulation	30mV	15mV	15mV	15mV
Current Load Regulation	200mA	120mA	60mA	40mA
/oltage Display Resolution	0.1mV	0.1mV	0.1mV	1mV
Current Display Resolution	1mA		0.2mA	0.1mA
/oltage Programmable Resolution	1mV	1mV	1.5mV	3mV
Current Programmable Resolution	6mA	3mA	2mA	1mA
/oltage Setting Accuracy [1]	0.05%+15mV	0.05%+15mV	0.05%+15mV	0.1%+15mV
Current Setting Accuracy	0.1%+200mA	0.1%+120mA	0.1%+60mA	0.1%+40mA
/oltage Measurement Accuracy [1]		0.05%+15mV	0.05%+15mV	0.1%+15mV
	0.1%+200mA	0.1%+120mA	0.1%+60mA	0.1%+40mA
/oltage Ripple [2]	60mVp-p	40mVp-p	40mVp-p	80mVp-p
лопаде ктррте	10mVrms	6mVrms	6mVrms	15mVrms
Current Ripple [3]	400mA (Full Range) 200mA (TYP Value)	150mA (Full Range) 20mA (TYP Value)	50mA (Full Range) 10mA (TYP Value)	60mA (Full Range) 10mA (TYP Value)
ine Regulation(Voltage)	0.01%+8mV	0.01%+8mV	0.01%+8mV	0.02%+8mV
ine Regulation(Current)	200mA	30mA	30mA	30mA
/oltage Temperature Coefficient [4]	100ppm/°C			
Current Temperature Coefficient [4]	150ppm/°C			
OVM Resolution	0.1mV	0.1mV	0.1mV	1mV
DVM Precision [1]	0.05%+15mV	0.05%+15mV	0.05%+15mV	0.1%+15mV
Operating Mode	Constant voltage (CV) / Constant cu	ırrent (CC)		
Remote Compensation	4V MAX	4V MAX	4V MAX	5V MAX
Master-slave Control	Yes			
Response (Voltage Increase)	≤20ms (no load) ≤30ms (full load)	≤10ms	≤15ms	≤20ms
Response (Voltage Drop)	≤500ms (no load) ≤30ms (full load)	≤350ms (no load) ≤10ms (full load)	≤450ms (no load) ≤30ms (full load)	≤350ms (no load) ≤21ms (full load)
oad Transient Recovery Time [5]	≤2ms	≤2ms	≤2ms	≤3ms
Command Response Time	50ms			
Series Capability [6]	Up to 10 units	Up to 10 units	Up to 10 units	Up to 8 units
Parallel Capability	Up to 10 units	Op to 10 drills	Op to 10 units	Op to 0 tillits
Current Sharing [7]	12V	12V	20V	30V
Efficiency (full load)	91%	88%	89%	89%
inoloney (full loau)	0170	OTHER	03 /0	03 /0
Protection Function	OVP/OCP/OTP/OPP/SCP	OTHER		
TOLEGUOTI FUNCTION	No(customers can purchase other accessorie	s		
Fold Back Function	to achieve this function, please consult the salesrepresentative for details)	Yes	Yes	Yes
nput Fuse	20A, 125VAC/250VAC, fast-acting type	30A, 125VAC/250VAC, fast-acting type	30A, 125VAC/250VAC, fast-acting type	30A, 125VAC/250VAC, fast-acting type
Net Weight	14.7kg	14.7kg	13.2kg	13.2kg
Accessories Weight	1.0kg			
Dimensions(WxHxD)	483.0x87.0x626.0 mm	483.0x87.0x626.0 mm	483.0x87.0x581.0 mm	483.0x87.0x581.0 mm
Communication Modes	1. RS232/RS485/USB/LAN; 2. RS	S232/RS485/USB/LAN/GPIB		
Operating Environment	Temperature 0~40°C, Relative Hum	idity 10%~90%(no condensation); Pollution degree 2, Installation cate	gory II, Indoor use.
Cooling Mode	Forced air-cooling			
	2000m			

- [1] %output+offset, when output voltage less than 5V, offset voltage is 30mV.

- [2] Vp-p@20MHz, Vrms@1.25MHz.

 The 20V/32V/40V/75V models voltage ripple is 50mVp-p/6mVrms @ 1V. For the 600V and 800V models, the voltage ripple from 0~5V is out of the range show above.

 [3] Arms@1.25MHz, the TYP Value is measured at the rated output voltage with 100% resistive load, and the measured value at full range of output voltage with 100% resistive load. is less than the Full Range value.
- [4] 0~40°C.
- [5] Time for output voltage to recover within 0.5%(0.75% @800V models) of its rated output for a load change from 10% to 90% of its rated output current. Voltage set point from 10% to 90% of rated output.
- [6] The communication must insulated users from output when using remote control and the output voltage exceeds 800VDC.
- [7] Current Share error le<(lav*2.5% + 5% F.S) A, F.S is the full scale of the current. lav=lsum/n, where lav is average current, Isum is total current and n is number of parallel units. Note: Output voltage must be higher than 30% of maximum output voltage when Current Share function properly. All specifications are subject to change without notice.

2000W in 2U(2)

Model	SP150VDC2000W	SP200VDC2000W	SP600VDC2000W	SP800VDC2000W
		INPUT		
nput Voltage	190~265VAC			
nput Frequency	47~63Hz			
Power Factor	>0.98			
nput Power	2400VA(MAX)			
		OUTPUT		
Output Voltage Range	0~150V	0~200V	0~600V	0~800V
Output Current Range	0~30A	0~24A	0~10A	0~7.5A
Output Power Range	0~2000W			
Voltage Load Regulation	15mV	15mV	30mV	200mV
Current Load Regulation	30mA	24mA	10mA	20mA
Voltage Display Resolution	1mV			
Current Display Resolution	0.1mA			
/oltage Programmable Resolution	3mV	4mV	12mV	24mV
Current Programmable Resolution	1mA			
Voltage Setting Accuracy [1]	0.1%+15mV	0.1%+15mV	0.05%+150mV	0.05%+200mV
Current Setting Accuracy	0.1%+30mA	0.1%+24mA	0.1%+10mA	0.1%+7.5mA
Voltage Measurement Accuracy [1]	0.1%+15mV	0.1%+15mV	0.05%+150mV	0.05%+200mV
Current Measurement Accuracy	0.1%+30mA	0.1%+24mA	0.1%+10mA	0.1%+7.5mA
Voltage Ripple [2]	40mVp-p 6mVrms	150mVp-p 30mVrms	350mVp-p 40mVrms	800mVp-p 200mVrms
Current Ripple [3]	60mA (Full Range) 10mA (TYP Value)	50mA (Full Range) 20mA (TYP Value)	25mA (Full Range) 10mA (TYP Value)	25mA (Full Range) 10mA (TYP Value)
ine Regulation(Voltage)	0.02%+8mV	0.02%+8mV	0.01%+30mV	0.01%+40mV
ine Regulation(Current)	30mA	30mA	15mA	20mA
/oltage Temperature Coefficient [4]	100ppm/°C			
Current Temperature Coefficient [4]	150ppm/°C			
DVM Resolution	1mV	1mV	12mV	12mV
OVM Precision [1]	0.1%+15mV	0.1%+15mV	0.05%+150mV	0.05%+200mV
Operating Mode	Constant voltage (CV) / Const	ant current (CC)		
Remote Compensation	5V MAX			
Master-slave Control	Yes			
Response (Voltage Increase)	≤25ms	≤30ms	≤60ms	≤60ms
Response (Voltage Drop)	≤500ms (no load) ≤25ms (full load)	≤500ms (no load) ≤20ms (full load)	≤800ms (no load) ≤90ms (full load)	≤800ms (no load) ≤60ms (full load)
oad Transient Recovery Time [5]	≤3ms			
Command Response Time	50ms			
Series Capability [6]	Up to 8 units	Up to 6 units	Up to 2 units	Not Recommended
Parallel Capability	Up to 10 units			
Current Sharing [7]	40V	50V	200V	250V
Efficiency (full load)	90%	90%	90%	91%
		OTHER		
rotection Function	OVP/OCP/OTP/OPP/SCP			
old Back Function	Yes			
nput Fuse	30A, 125VAC/250VAC, fast-acting type	30A, 125VAC/250VAC, fast-acting type	20A, 125VAC/250VAC, fast-acting type	20A, 125VAC/250VAC, fast-acting type
Net Weight	13.2kg	13.2kg	14.7kg	14.7kg
Accessories Weight	1.0kg			
Dimensions(WxHxD)	483.0x87.0x581.0 mm	483.0x87.0x581.0 mm	483.0x87.0x626.0 mm	483.0x87.0x626.0 mm
	1. RS232/RS485/USB/LAN;	2. RS232/RS485/USB/LAN/GPIB		
Operating Environment	,	Humidity 10%~90%(no condensation	n); Pollution degree 2, Installation cate	egory II, Indoor use.
Cooling Mode	Forced air-cooling	,		
J	2000m			

- [1] %output+offset, when output voltage less than 5V, offset voltage is 30mV.

- [2] Vp-p@20MHz, Vrms@1.25MHz.

 The 20V/32V/40V/75V models voltage ripple is 50mVp-p/6mVrms @ 1V. For the 600V and 800V models, the voltage ripple from 0~5V is out of the range show above.

 [3] Arms@1.25MHz, the TYP Value is measured at the rated output voltage with 100% resistive load, and the measured value at full range of output voltage with 100% resistive load. is less than the Full Range value.
- [4] 0~40°C.
- [5] Time for output voltage to recover within 0.5%(0.75% @800V models) of its rated output for a load change from 10% to 90% of its rated output current. Voltage set point from 10% to 90% of rated output.
- [6] The communication must insulated users from output when using remote control and the output voltage exceeds 800VDC.
- [7] Current Share error le<(lav*2.5% + 5% F.S) A, F.S is the full scale of the current. lav=lsum/n, where lav is average current, Isum is total current and n is number of parallel units. Note: Output voltage must be higher than 30% of maximum output voltage when Current Share function properly. All specifications are subject to change without notice.

■ 3000W in 2U(1)

Model	SP32VDC3000W	SP40VDC3000W	SP80VDC3000W	SP120VDC3000W	
	400,005)/40	INPUT			
nput Voltage	190~265VAC				
nput Frequency	47~63Hz				
Power Factor	>0.98				
nput Power	3700VA(MAX)	3400VA(MAX)	3400VA(MAX)	3400VA(MAX)	
	_	OUTPUT			
Output Voltage Range	0~32V	0~40V	0~80V	0~120V	
Output Current Range	0~200A	0~120A	0~60A	0~40A	
Output Power Range	0~3000W				
/oltage Load Regulation	30mV	15mV	15mV	15mV	
Current Load Regulation	200mA	120mA	60mA	40mA	
/oltage Display Resolution	0.1mV	0.1mV	0.1mV	1mV	
Current Display Resolution	1mA	1mA	0.2mA	0.1mA	
oltage Programmable Resolution	1mV	1mV	1.5mV	3mV	
Current Programmable Resolution	6mA	2mA	2mA	1mA	
/oltage Setting Accuracy [1]	0.05%+15mV	0.05%+15mV	0.05%+15mV	0.1%+15mV	
Current Setting Accuracy	0.1%+200mA	0.1%+120mA	0.1%+60mA	0.1%+40mA	
oltage Measurement Accuracy [1]	0.05%+15mV	0.05%+15mV	0.05%+15mV	0.1%+15mV	
Current Measurement Accuracy	0.1%+200mA	0.1%+120mA	0.1%+60mA	0.1%+40mA	
/oltage Ripple [2]	60mVp-p 10mVrms	40mVp-p 6mVrms	40mVp-p 6mVrms	80mVp-p 15mVrms	
Current Ripple [3]	400mA (Full Range) 200mA (TYP Value)	150mA (Full Range) 20mA (TYP Value)	50mA (Full Range) 10mA (TYP Value)	60mA (Full Range) 10mA (TYP Value)	
ine Regulation(Voltage)	0.01%+8mV	0.01%+8mV	0.01%+8mV	0.02%+8mV	
ine Regulation(Current)	200mA	30mA	30mA	30mA	
oltage Temperature Coefficient [4]	100ppm/°C				
Current Temperature Coefficient [4]	150ppm/°C				
OVM Resolution	0.1mV	0.1mV	0.1mV	1mV	
OVM Precision [1]	0.05%+15mV	0.05%+15mV	0.05%+15mV	0.1%+15mV	
Operating Mode	Constant voltage (CV) / Constant co	urrent (CC)			
Remote Compensation	4V MAX	4V MAX	4V MAX	5V MAX	
Master-slave Control	Yes				
Response (Voltage Increase)	≤20ms (no load) ≤20ms (full load)	≤10ms	≤15ms	≤20ms	
Response (Voltage Drop)	≤500ms (no load) ≤25ms (full load)	≤350ms (no load) ≤10ms (full load)	≤450ms (no load) ≤30ms (full load)	≤350ms (no load) ≤21ms (full load)	
oad Transient Recovery Time (5)	≤2ms				
Command Response Time	50ms				
Series Capability [6]	Up to 10 units				
Parallel Capability	Up to 10 units				
Current Sharing [7]	12V	12V	20V	30V	
Efficiency (full load)	91%	88%	91%	91%	
, (=)		OTHER			
Protection Function	OVP/OCP/OTP/OPP/SCP				
Fold Back Function	No(customers can purchase other accessorie to achieve this function, please consult the salesrepresentative for details)	Yes	Yes	Yes	
nput Fuse	30A, 125VAC/250VAC, fast-acting type	40A, 125VAC/250VAC, fast-acting type	40A, 125VAC/250VAC, fast-acting type	40A, 125VAC/250VAC, fast-acting type	
let Weight	0 71	14.7kg	13.2kg	13.2kg	
Accessories Weight Dimensions(WxHxD)	1.0kg 483.0x87.0x626.0 mm	483.0x87.0x626.0 mm	483.0x87.0x581.0 mm	483.0x87.0x581.0 mm	
, ,			403.0307.03301.011111	400.0x07.0x061.0 mm	
Communication Modes					
Operating Environment Cooling Mode	Temperature 0~40°C, Relative Humidity 10%~90%(no condensation); Pollution degree 2, Installation category II, Indoor use. Forced air-cooling				
COURT MODE	Forced air-cooling				

- [1] %output+offset, when output voltage less than 5V, offset voltage is 30mV.

- [2] Vp-p@20MHz, Vrms@1.25MHz.

 The 20V/32V/40V/75V models voltage ripple is 50mVp-p/6mVrms @ 1V. For the 600V and 800V models, the voltage ripple from 0~5V is out of the range show above.

 [3] Arms@1.25MHz, the TYP Value is measured at the rated output voltage with 100% resistive load, and the measured value at full range of output voltage with 100% resistive load. is less than the Full Range value.
- [4] 0~40°C.
- [5] Time for output voltage to recover within 0.5%(0.75% @800V models) of its rated output for a load change from 10% to 90% of its rated output current. Voltage set point from 10% to 90% of rated output.
- [6] The communication must insulated users from output when using remote control and the output voltage exceeds 800VDC.
- [7] Current Share error le<(lav*2.5% + 5% F.S) A, F.S is the full scale of the current. lav=lsum/n, where lav is average current, Isum is total current and n is number of parallel units. Note: Output voltage must be higher than 30% of maximum output voltage when Current Share function properly. All specifications are subject to change without notice.

■ 3000W in 2U(2)

Model	SP150VDC3000W	SP200VDC3000W	SP600VDC3000W	SP800VDC3000W		
model.	31 130 V D C 3000 V V	INPUT	31 000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	37 000 4 D C 3000 4 4		
Input Voltage	190~265VAC	INFOI				
Input Frequency	47~63Hz					
Power Factor	>0.98					
Input Power	3400VA(MAX)					
Input Fower	3400 VA(IVIAX)	OUTPUT				
Output Voltage Range	0~150V	0~200V	0~600V	0~800V		
Output Current Range	0~30A	0~200V 0~24A	0~000V 0~10A	0~7.5A		
		U~24A	0~10A	0~7.5A		
Output Power Range Voltage Load Regulation	0~3000W 15mV	15mV	30mV	200mV		
Current Load Regulation						
· ·	30mA	24mA	10mA	20mA		
Voltage Display Resolution	1mV					
Current Display Resolution	0.1mA	4	40\/	04:34		
Voltage Programmable Resolution		4mV	12mV	24mV		
Current Programmable Resolution		0.40/1.45=11/	0.050/ :450\/	0.059/ 1000 11/		
Voltage Setting Accuracy [1]	0.1%+15mV	0.1%+15mV	0.05%+150mV	0.05%+200mV		
Current Setting Accuracy	0.1%+30mA	0.1%+24mA	0.1%+10mA	0.1%+7.5mA		
Voltage Measurement Accuracy [1]	0.1%+15mV	0.1%+15mV	0.05%+150mV	0.05%+200mV		
Current Measurement Accuracy	0.1%+30mA	0.1%+24mA	0.1%+10mA	0.1%+7.5mA		
Voltage Ripple [2]	80mVp-p 15mVrms	150mVp-p 30mVrms	350mVp-p 40mVrms	800mVp-p 200mVrms		
Current Ripple [3]	60mA (Full Range) 10mA (TYP Value)	50mA (Full Range) 20mA (TYP Value)	25mA (Full Range) 10mA (TYP Value)	25mA (Full Range) 10mA (TYP Value)		
Line Regulation(Voltage)	0.02%+8mV	0.02%+8mV	0.01%+30mV	0.01%+40mV		
Line Regulation(Current)	30mA	30mA	15mA	20mA		
Voltage Temperature Coefficient [4]	100ppm/°C					
Current Temperature Coefficient [4]	150ppm/°C					
DVM Resolution	1mV	1mV	12mV	12mV		
DVM Precision [1]	0.1%+15mV	0.1%+15mV	0.05%+150mV	0.05%+200mV		
Operating Mode	Constant voltage (CV) / Constant of	eurrent (CC)				
Remote Compensation	5V MAX					
Master-slave Control	Yes					
Response (Voltage Increase)	≤25ms	≤30ms	≤60ms	≤60ms		
Response (Voltage Drop)	≤500ms (no load) ≤25ms (full load)	≤500ms (no load) ≤20ms (full load)	≤800ms (no load) ≤75ms (full load)	≤800ms (no load) ≤60ms (full load)		
Load Transient Recovery Time [5]	≤2.5ms	≤3ms	≤3ms	≤3ms		
Command Response Time	50ms					
Series Capability [6]	Up to 8 units	Up to 6 units	Up to 2 units	Not Recommended		
Parallel Capability	Up to 10 units					
Current Sharing [7]	40V	50V	200V	250V		
Efficiency (full load)	92%	91%	91%	91%		
		OTHER				
Protection Function	OVP/OCP/OTP/OPP/SCP					
Fold Back Function	Yes					
Input Fuse	40A, 125VAC/250VAC, fast-acting type	40A, 125VAC/250VAC, fast-acting type	30A, 125VAC/250VAC, fast-acting type	30A, 125VAC/250VAC, fast-acting type		
Net Weight	13.2kg	13.2kg	14.7kg	14.7kg		
Accessories Weight	1.0kg					
Dimensions(WxHxD)	483.0x87.0x581.0 mm	483.0x87.0x581.0 mm	483.0x87.0x626.0 mm	483.0x87.0x626.0 mm		
Communication Modes	1. RS232/RS485/USB/LAN; 2. RS232/RS485/USB/LAN/GPIB					
Operating Environment	Temperature 0~40°C, Relative Humidity 10%~90%(no condensation); Pollution degree 2, Installation category II, Indoor use.					
Cooling Mode	Forced air-cooling					
Altitude	2000m					

^{[1] %}output+offset, when output voltage less than 5V, offset voltage is 30mV.

^[2] Vp-p@20MHz, Vrms@1.25MHz.

The 20V/32V/40V/75V models voltage ripple is 50mVp-p/6mVrms @ 1V. For the 600V and 800V models, the voltage ripple from 0~5V is out of the range show above.

[3] Arms@1.25MHz, the TYP Value is measured at the rated output voltage with 100% resistive load, and the measured value at full range of output voltage with 100% resistive load. is less than the Full Range value.

^{[4] 0~40°}C.

^[5] Time for output voltage to recover within 0.5%(0.75% @800V models) of its rated output for a load change from 10% to 90% of its rated output current. Voltage set point from 10% to 90% of rated output.

^[6] The communication must insulated users from output when using remote control and the output voltage exceeds 800VDC.

^[7] Current Share error le<(lav*2.5% + 5% F.S) A, F.S is the full scale of the current. lav=lsum/n, where lav is average current, Isum is total current and n is number of parallel units. Note: Output voltage must be higher than 30% of maximum output voltage when Current Share function properly. All specifications are subject to change without notice.

■ 4000W in 2U(1)

Model	SP32VDC4000W	SP40VDC4000W	SP75VDC4000W	SP120VDC4000W		
		INPUT				
nput Voltage	190~265VAC					
nput Frequency	47~63Hz					
Power Factor	>0.98					
nput Power	4800VA(MAX)	4500VA(MAX)	4500VA(MAX)	4500VA(MAX)		
		OUTPUT				
Output Voltage Range	0~32V	0~40V	0~75V	0~120V		
Output Current Range	0~200A	0~120A	0~60A	0~40A		
Output Power Range	0~4000W					
/oltage Load Regulation	30mV	15mV	15mV	15mV		
Current Load Regulation	200mA	120mA	60mA	40mA		
/oltage Display Resolution	0.1mV	0.1mV	0.1mV	1mV		
Current Display Resolution	1mA	1mA	0.1mA	0.1mA		
oltage Programmable Resolution	1mV	1mV	2mV	3mV		
Current Programmable Resolution	6mA	3mA	2mA	1mA		
/oltage Setting Accuracy [1]	0.05%+15mV	0.05%+15mV	0.1%+15mV	0.1%+15mV		
Current Setting Accuracy	0.1%+200mA	0.1%+120mA	0.1%+60mA	0.1%+40mA		
oltage Measurement Accuracy [1]	0.05%+15mV	0.05%+15mV	0.1%+15mV	0.1%+15mV		
Current Measurement Accuracy	0.1%+200mA	0.1%+120mA	0.1%+60mA	0.1%+40mA		
/oltage Ripple [2]	60mVp-p 10mVrms	40mVp-p 6mVrms	40mVp-p 8mVrms	80mVp-p 15mVrms		
Current Ripple [3]	400mA (Full Range) 200mA (TYP Value)	150mA (Full Range) 20mA (TYP Value)	60mA (Full Range) 10mA (TYP Value)	60mA (Full Range) 10mA (TYP Value)		
ine Regulation(Voltage)	0.01%+8mV	0.01%+8mV	0.01%+8mV	0.02%+8mV		
ine Regulation(Current)	200mA	30mA	30mA	30mA		
/oltage Temperature Coefficient [4]	100ppm/°C					
Current Temperature Coefficient [4]	150ppm/°C					
OVM Resolution	0.1mV	0.1mV	0.1mV	1mV		
OVM Precision [1]	0.05%+15mV	0.05%+15mV	0.05%+15mV	0.1%+15mV		
Operating Mode	Constant voltage (CV) / Constant co	urrent (CC)				
Remote Compensation	4V MAX	4V MAX	5V MAX	5V MAX		
Master-slave Control	Yes					
Response (Voltage Increase)	≤20ms (no load) ≤20ms (full load)	≤10ms	≤15ms	≤20ms		
Response (Voltage Drop)	≤500ms (no load) ≤20ms (full load)	≤350ms (no load) ≤10ms (full load)	≤450ms (no load) ≤20ms (full load)	≤350ms (no load) ≤21ms (full load)		
oad Transient Recovery Time [5]	≤2ms					
Command Response Time	50ms					
Series Capability ⁽⁶⁾	Up to 10 units					
Parallel Capability	Up to 10 units					
Current Sharing [7]	12V	12V	20V	30V		
Efficiency (full load)	91%	91%	91%	92%		
		OTHER				
Protection Function	OVP/OCP/OTP/OPP/SCP					
old Back Function	No(customers can purchase other accessorie to achieve this function, please consult the salesrepresentative for details)	es Yes	Yes	Yes		
nput Fuse	40A, 125VAC/250VAC, fast-acting type					
let Weight	14.7kg	14.7kg	13.2kg	13.2kg		
Accessories Weight	1.0kg	9				
Dimensions(WxHxD)	483.0x87.0x626.0 mm	483.0x87.0x626.0 mm	483.0x87.0x581.0 mm	483.0x87.0x581.0 mm		
Communication Modes		\$232/R\$485/U\$B/LAN/GPIB	+00.0x07.0x001.0 IIIIII	-00.0x07.0x001.0 IIIIII		
Operating Environment	Temperature 0~40°C, Relative Humidity 10%~90%(no condensation); Pollution degree 2, Installation category II, Indoor use.					
Cooling Mode	Forced air-cooling					
ADDITIO IVIDOR	1 orded all-cooling					

- [1] %output+offset, when output voltage less than 5V, offset voltage is 30mV.

- [2] Vp-p@20MHz, Vrms@1.25MHz.

 The 20V/32V/40V/75V models voltage ripple is 50mVp-p/6mVrms @ 1V. For the 600V and 800V models, the voltage ripple from 0~5V is out of the range show above.

 [3] Arms@1.25MHz, the TYP Value is measured at the rated output voltage with 100% resistive load, and the measured value at full range of output voltage with 100% resistive load. is less than the Full Range value.
- [4] 0~40°C.
- [5] Time for output voltage to recover within 0.5%(0.75% @800V models) of its rated output for a load change from 10% to 90% of its rated output current. Voltage set point from 10% to 90% of rated output.
- [6] The communication must insulated users from output when using remote control and the output voltage exceeds 800VDC.
- [7] Current Share error le<(lav*2.5% + 5% F.S) A, F.S is the full scale of the current. lav=lsum/n, where lav is average current, Isum is total current and n is number of parallel units. Note: Output voltage must be higher than 30% of maximum output voltage when Current Share function properly. All specifications are subject to change without notice.

4000W in 2U(2)

Model	SP150VDC4000W	SP200VDC4000W	SP600VDC4000W	SP800VDC4000W	
		INPUT			
Input Voltage	190~265VAC				
nput Frequency	47~63Hz				
Power Factor	>0.98				
Input Power	4500VA(MAX)				
		OUTPUT			
Output Voltage Range	0~150V	0~200V	0~600V	0~800V	
Output Current Range	0~30A	0~24A	0~10A	0~7.5A	
Output Power Range	0~4000W				
Voltage Load Regulation	15mV	25mV	30mV	200mV	
Current Load Regulation	30mA	24mA	10mA	20mA	
/oltage Display Resolution	1mV				
Current Display Resolution	0.1mA				
/oltage Programmable Resolution	3mV	4mV	12mV	24mV	
Current Programmable Resolution	1mA				
/oltage Setting Accuracy [1]	0.1%+15mV	0.1%+15mV	0.05%+150mV	0.05%+200mV	
Current Setting Accuracy	0.1%+30mA	0.1%+24mA	0.1%+10mA	0.1%+7.5mA	
Voltage Measurement Accuracy [1]	0.1%+15mV	0.1%+15mV	0.05%+150mV	0.05%+200mV	
Current Measurement Accuracy	0.1%+30mA	0.1%+24mA	0.1%+10mA	0.1%+7.5mA	
Voltage Ripple [2]	80mVp-p 15mVrms	150mVp-p 30mVrms	350mVp-p 40mVrms	800mVp-p 200mVrms	
Current Ripple [3]	60mA (Full Range) 10mA (TYP Value)	50mA (Full Range) 20mA (TYP Value)	25mA (Full Range) 10mA (TYP Value)	25mA (Full Range) 10mA (TYP Value)	
ine Regulation(Voltage)	0.02%+8mV	0.02%+8mV	0.01%+30mV	0.01%+40mV	
ine Regulation(Current)	30mA	30mA	15mA	20mA	
/oltage Temperature Coefficient [4]	100ppm/°C				
Current Temperature Coefficient [4]	150ppm/°C				
OVM Resolution	1mV	1mV	12mV	12mV	
OVM Precision [1]	0.1%+15mV	0.1%+15mV	0.05%+150mV	0.05%+200mV	
Operating Mode	Constant voltage (CV) / Constant	current (CC)			
Remote Compensation	5V MAX				
Master-slave Control	Yes				
Response (Voltage Increase)	≤25ms	≤30ms	≤60ms	≤60ms	
Response (Voltage Drop)	≤500ms (no load) ≤25ms (full load)	≤500ms (no load) ≤20ms (full load)	≤800ms (no load) ≤60ms (full load)	≤800ms (no load) ≤60ms (full load)	
Load Transient Recovery Time [5]	≤2.5ms	≤3ms	≤3ms	≤3ms	
Command Response Time	50ms				
Series Capability [6]	Up to 8 units	Up to 6 units	Up to 2 units	Not Recommended	
Parallel Capability	Up to 10 units				
Current Sharing [7]	40V	50V	200V	250V	
Efficiency (full load)	93%	92%	92%	92%	
		OTHER			
Protection Function	OVP/OCP/OTP/OPP/SCP				
Fold Back Function	Yes				
nput Fuse	40A, 125VAC/250VAC, fast-acting type				
Net Weight	13.2kg	13.2kg	14.7kg	14.7kg	
Accessories Weight	1.0kg				
Dimensions(WxHxD)	483.0x87.0x581.0 mm	483.0x87.0x581.0 mm	483.0x87.0x626.0 mm	483.0x87.0x626.0 mm	
Communication Modes	1. RS232/RS485/USB/LAN; 2.	RS232/RS485/USB/LAN/GPIB			
Operating Environment	Temperature 0~40°C, Relative He	umidity 10%~90%(no condensation)	; Pollution degree 2, Installation cat	egory II, Indoor use.	
Cooling Mode	Forced air-cooling				
Altitude	2000m				

- [1] %output+offset, when output voltage less than 5V, offset voltage is 30mV.

- [2] Vp-p@20MHz, Vrms@1.25MHz.

 The 20V/32V/40V/75V models voltage ripple is 50mVp-p/6mVrms @ 1V. For the 600V and 800V models, the voltage ripple from 0~5V is out of the range show above.

 [3] Arms@1.25MHz, the TYP Value is measured at the rated output voltage with 100% resistive load, and the measured value at full range of output voltage with 100% resistive load. is less than the Full Range value.
- [4] 0~40°C.
- [5] Time for output voltage to recover within 0.5%(0.75% @800V models) of its rated output for a load change from 10% to 90% of its rated output current. Voltage set point from 10% to 90% of rated output.
- [6] The communication must insulated users from output when using remote control and the output voltage exceeds 800VDC.
- [7] Current Share error le<(lav*2.5% + 5% F.S) A, F.S is the full scale of the current. lav=lsum/n, where lav is average current, Isum is total current and n is number of parallel units. Note: Output voltage must be higher than 30% of maximum output voltage when Current Share function properly. All specifications are subject to change without notice.

