

Efficiency, Stability, Reliable, Precision

Middle Power DC Power Supply

>>> Product specification sheet







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SP40VDC1000W	40V	40A	1000W	P02
SP75VDC1000W	75V	25A	1000W	P02
SP150VDC1000W	150V	10A	1000W	P02
SP200VDC1000W	200V	8A	1000W	P02
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SP200VDC2000W	200V	24A	2000W	P09
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SP600VDC3000W	600V	10A	3000W	P11
SP800VDC3000W	800V	7.5A	3000W	P11
SP32VDC4000W	32V	200A	4000W	P12
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■ 600W in 1U

Model	SP20VDC600W	SP32VDC600W	SP40VDC600W	SP75VDC600W	SP150VDC600W	SP200VDC600W
Input Voltage	90~265VAC		Input			
Input Voltage	47~63Hz					
Input Frequency						
Power Factor	>0.98					
Input Power	750VA(MAX)		Outrot			
Output Valtaga Danga	0. 001/	0. 001/	Output	0. 751	0. 1507	0.0001/
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					1
Voltage 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
Voltage 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)
Line Regulation(Voltage)	0.005%+1mV	0.005%+1mV	0.005%+1mV	0.005%+1mV	0.02%+8mV	0.02%+8mV
Line Regulation(Current)	4mA	4mA	4mA	4mA	10mA	30mA
Voltage 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)	≤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				100	
Series Capability [6]	Up to 10 units	Up to 10 units	Up to 10 units	Up to 10 units	Up to 8 units	Up to 6 units
Parallel Capability	Up to 10 units	op to 10 dilits	op to 10 units	op to 10 units	op to o units	op to o units
Current Sharing [7]	·	0.4	101	001/	4017	501/
-	9V	9V	12V	20V	40V	50V
Efficiency (full load)	85%	86%	87%	88%	88%	87%
Drotaction Franctica	0\\D\\000\000\\000\\000\\000\\000\\000\\000\\000\\000\\000\\000\\000\\000\000\\000\\000\\000\\000\\000\\000\\000\\000\\000\\000\\000\\000\000\\000\\000\\000\\000\\000\\000\\000\\000\\000\\000\\000\\000\000\\000\\000\\000\\000\\000\\000\\000\\000\\000\\000\\000\\000\000\\000\\000\\000\\000\\000\\000\\000\\000\\000\\000\\000\\000\000\\000\\000\\000\\000\\000\\000\\000\\000\\000\\000\\000\\000\000\\000\\000\\000\\000\\000\\000\\000\\000\\000\\000\\000\\000\000\\000\\000\\000\\000\\000\\000\\000\\000\\000\\000\\000\\000\000\\000\\000\\000\\000\\000\\000\\000\00\000\000\\000\\000\\000\	CD/FOLDBACK	Other			
Protection Function	OVP/OCP/OTP/OPP/S	CP/FULDBACK				
Anti Reverse Irrigation Protection	Yes					
Input 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/250VAC fast-acting type
Unit Weight/Shipping Weight	9.2kg/12kg	9.2kg/12kg	9.2kg/12kg	8.9kg/11.7kg	9.3kg/12.7kg	9.3kg/12.7kg
Dimensions(WxHxD)	423.0x44.0x447.0 mm					
Communication Modes	1. RS232/RS485/USB/I	_AN; 2. RS232/RS485/	USB/LAN/GPIB			
Operating Environment		elative Humidity 10%~90		lution degree 2, Installation	on category II, Indoor use	
Cooling Mode	Forced air-cooling		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
Altitude	2000m					
Insulation		4242VDC, AC input <->	PF 2121VDC			
	ut voltage less than EV of		, ∠ . ∠ . ۷ D O			

^{[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.

■ 1000W in 1U

Model	SP20VDC1000W	SP32VDC1000W	SP40VDC1000W	SP75VDC1000W	SP150VDC1000W	SP200VDC1000W
	0. 20700 1000	0.0270010001	Input	oi rorboroon	or records record	GI 2007DO TOGON
Input Voltage	90~265VAC					
Input Frequency	47~63Hz					
Power Factor	>0.98					
Input 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					
Voltage 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
Voltage 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)	40mA (Full Range)
Line Regulation(Voltage)	0.005%+1mV	0.005%+1mV	0.005%+1mV	0.005%+1mV	10mA (TYP Value) 0.02%+8mV	10mA (TYP Value) 0.02%+8mV
Line Regulation(Current)	4mA	4mA	4mA	4mA		30mA
Voltage Temperature Coefficient [4]	100ppm/°C	HIIA	4IIIA	4IIIA	10mA	SUITA
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
	Constant voltage (CV) /		U.U3/6T13IIIV	U.U3/6T13IIIV	0.1%+30111V	0.1%+13111V
Operating Mode Remote Compensation		Constant current (CC)				
Master-slave Control	4V MAX Yes					
Response (Voltage Increase)	≤10ms	≤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)
Load Transient Recovery Time [5]		≤2ms	≤2ms	≤2ms	≤3ms	≤3ms
Command Response Time	≤2ms 50ms	SZIIIS	SZIIIS	SZIIIS	531118	Sollis
Series Capability [6]	Up to 10 units	Up to 8 units	Up to 6 units			
Parallel Capability	Up to 10 units	op to o units	op to o units			
Current Sharing [7]	9V	9V	12V	20V	40V	50V
Efficiency (full load)	85%	89%	89%	89%	89%	
Efficiency (full load)	03%	09%	Other	09%	0976	87%
Protection Function	OVP/OCP/OTP/OPP/S	CP/FOLDBACK	Other			
Anti Reverse Irrigation Protection	Yes					
Input Fuse	20A, 125VAC/250VAC, fast-acting type	30A, 125VAC/250VAC fast-acting type				
Unit Weight/Shipping Weight	9.2kg/12kg	9.2kg/12kg	9.2kg/12kg	8.9kg/11.7kg	9.3kg/12.7kg	9.3kg/12.7kg
Dimensions(WxHxD)	423.0x44.0x447.0 mm					
Communication Modes	1. RS232/RS485/USB/L	AN; 2. RS232/RS485/	USB/LAN/GPIB			
Operating Environment	Temperature 0~40°C, Re	elative Humidity 10%~90	%(no condensation); Pol	ution degree 2, Installatio	on category II, Indoor use	
Cooling Mode	Forced air-cooling					
	2000m					
Altitude	2000111					

^{[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.

1200W in 1U

_						
Model	SP20VDC1200W	SP32VDC1200W	SP40VDC1200W	SP75VDC1200W	SP150VDC1200W	SP200VDC1200W
Innut Valtage	90~265VAC		Input			
Input Voltage						
Input Frequency	47~63Hz					
Power Factor	>0.98					
Input Power	1500VA(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	0~1200W					
Voltage 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
Voltage 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
,	40mVp-p	40mVp-p	40mVp-p	40mVp-p	120mVp-p	120mVp-p
Voltage Ripple [2]	6mVrms	6mVrms	6mVrms	6mVrms	40mVrms	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)
Line Regulation(Voltage)	0.005%+1mV	0.005%+1mV	0.005%+1mV	0.005%+1mV	0.02%+8mV	0.02%+8mV
Line Regulation(Current)	4mA	4mA	4mA	4mA	10mA	30mA
Voltage Temperature Coefficient [4]		TILLA	TILLA	TIIIA	TOTTIA	JULIA
,						
Current Temperature Coefficient (4)	150ppm/°C	0.1/	0.1)/	0.4	4	1
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			İ	İ	i
Response (Voltage Increase)	≤10ms	≤10ms	≤10ms	≤10ms	≤25ms	≤30ms
Response (Voltage Drop)	≤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)
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)	84%	84%	89%	90%	89%	90%
, , (Other	· ·	· ·	
Protection Function	OVP/OCP/OTP/OPP/S	CP/FOLDBACK				
Anti Reverse	Yes					
Irrigation Protection	20A, 125VAC/250VAC,	20A, 125VAC/250VAC,	30A, 125VAC/250VAC,	30A, 125VAC/250VAC,	30A, 125VAC/250VAC,	30A, 125VAC/250VAC
Input Fuse	fast-acting type					
Unit Weight/Shipping Weight	9.2kg/12kg	9.2kg/12kg	9.2kg/12kg	8.9kg/11.7kg	9.3kg/12.7kg	9.3kg/12.7kg
Dimensions(WxHxD)	423.0x44.0x447.0 mm					
Communication Modes	1. RS232/RS485/USB/I	·				
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					
Altitude	2000m					
Insulation	AC input <->DC output,	4242VDC, AC input <->	PE, 2121VDC			
1% output+offcot whon outpu						

^{[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.

1500W in 1U

Model	SP75VDC1500W	SP150VDC1500W	SP200VDC1500W
		Input	
Input Voltage	90~265VAC		
Input Frequency	47~63Hz		
Power Factor	>0.98		
Input Power	1900VA(MAX)		
		Output	
Output Voltage Range	0~75V	0~150V	0~200V
Output Current Range	0~25A	0~10A	0~8A
Output Power Range	0~1500W		
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	1.5mV	3mV	3mV
Current Programmable Resolution		1mA	1mA
Voltage Setting Accuracy [1]	0.05%+15mV	0.05%+15mV	0.05%+15mV
Current Setting Accuracy	0.1%+25mA	0.1%+10mA	0.1%+8mA
Voltage Measurement Accuracy [1]	0.05%+15mV	0.1%+15mV	0.1%+15mV
Current Measurement Accuracy	0.1%+25mA	0.1%+10mA	0.1%+8mA
,	40mVp-p	120mVp-p	120mVp-p
Voltage Ripple [2]	6mVrms	40mVrms	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 [4]	100ppm/°C	<u>'</u>	
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/FOLDBACK		
Anti Reverse Irrigation Protection	Yes		
Input Fuse	30A, 125VAC/250VAC, fast-acting type		
Unit Weight/Shipping Weight	8.9kg/11.7kg	9.3kg/12.7kg	9.3kg/12.7kg
Dimensions(WxHxD)	423.0x44.0x447.0 mm		
Communication Modes	1. RS232/RS485/USB/LAN; 2. RS232/RS485	/USB/LAN/GPIB	
Operating Environment	Temperature 0~40°C, Relative Humidity 10%~90	0%(no condensation); Pollution degree 2, Installation	on category II, Indoor use.
Cooling Mode	Forced air-cooling		
Altitude	2000m		
Insulation	AC input <->DC output, 4242VDC, AC input <->	PE, 2121VDC	
[1] % output+offset when output	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.

■ 1600W in 1U

Model	0000100440011	
Model	SP32VDC1600W	SP40VDC1600W
	Input	
Input Voltage	90~265VAC	
Input Frequency	47~63Hz	
Power Factor	>0.98	
Input Power	2000VA(MAX)	
Outrot Waltana Barana	Output	0. 401/
Output Voltage Range	0~32V	0~40V
Output Current Range	0~50A	0~40A
Output Power Range	0~1600W	
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	
	0.1%+50mA	0.1%+40mA
Current Setting Accuracy		0.05%+15mV
Voltage Measurement Accuracy	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 [4]	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%
	Other	
Protection Function	OVP/OCP/OTP/OPP/SCP/FOLDBACK	
Anti Reverse Irrigation Protection	Yes	
Input Fuse	30A,125VAC/250VAC, fast-acting type	
Unit Weight/Shipping Weight	9.2kg/12kg	
Dimensions(WxHxD)	423.0x44.0x447.0 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); Poll	ution degree 2, Installation category II, Indoor use.
Cooling Mode	Forced air-cooling	
Altitude	2000m	
Insulation	AC input <->DC output, 4242VDC, AC input <-> PE, 2121VDC	
	at input <->DC output, 4242VDC, AC input <-> PE, 2121VDC	

- [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
		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
	60mVp-p	40mVp-p	40mVp-p	80mVp-p
Voltage Ripple [2]	10mVrms	6mVrms	6mVrms	15mVrms
Current Ripple [3]	400mA (Full Range)	150mA (Full Range)	50mA (Full Range)	60mA (Full Range)
	200mA (TYP Value)	20mA (TYP Value)	10mA (TYP Value)	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	ırrent (CC)		
Remote Compensation	4V MAX	4V MAX	4V MAX	5V MAX
Master-slave Control	Yes			
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		
Protection Function	OVP/OCP/OTP/OPP/SCP/FOLDBA			
Anti Reverse Irrigation Protection	No(customers can purchase other accessories to achieve this function, please consult the		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
Unit Weight/Shipping Weight	14.7kg/18.7kg	14.7kg/18.7kg	13.2kg/16.8kg	13.2kg/16.8kg
Dimensions(WxHxD)	423.0x87.0x514.0 mm	423.0x87.0x514.0 mm	423.0x87.0x469.0 mm	423.0x87.0x469.0 mm
Communication Modes	1. RS232/RS485/USB/LAN; 2. RS		720.0007.00403.0111111	720.0007.00403.0111111
Operating Environment			; Pollution degree 2, Installation cate	gory II Indooruse
	Temperature 0 40 G, Relative Hulli	any 1070 3070(110 condensation	, i shutton degree 2, installation cate	gory ii, iiidoor doc.
, ,	Forced air cooling			
Cooling Mode Altitude	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.

■ 1000W in 2U(2)

Model	SPS150VDC1000W	SPS200VDC1000W	SPS600VDC1000W	SPS800VDC1000W
		Input		
Input Voltage	90~265VAC			
Input Frequency	47~63Hz			
Power Factor	>0.98			
Input 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			
Voltage Load Regulation	15mV	15mV	30mV	200mV
Current Load Regulation	30mA	24mA	10mA	20mA
Voltage Display Resolution	1mV			
Current Display Resolution	0.1mA			
Voltage 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]	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%+308mV	0.01%+40mV
Line Regulation(Current)	30mA	30mA	15mA	15mA
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) / Constan	nt 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)
oad 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		
Protection Function	OVP/OCP/OTP/OPP/SCP/FOLI	DBACK		
Anti Reverse Irrigation Protection	Yes			
nput Fuse	30A, 125VAC/250VAC, fast-acting type			
Jnit Weight/Shipping Weight	13.2kg/16.8kg	14.7kg/18.7kg	13.2kg/16.8kg	13.2kg/16.8kg
Dimensions(WxHxD)	423.0x87.0x469.0 mm	423.0x87.0x469.0 mm	423.0x87.0x514.0 mm	423.0x87.0x514.0 mm
Communication Modes		. RS232/RS485/USB/LAN/GPIB		
Operating Environment	· · · · · · · · · · · · · · · · · · ·); Pollution degree 2, Installation cate	gory 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.

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			
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	6mA	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)
_ine Regulation(Voltage)	0.01%+8mV	0.01%+8mV	0.01%+8mV	0.02%+8mV
_ine Regulation(Current)	200mA	30mA	30mA	30mA
Voltage 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 c	urrent (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			
Current Sharing [7]	12V	12V	20V	30V
Efficiency (full load)	91%	88%	89%	89%
		Other		
Protection Function	OVP/OCP/OTP/OPP/SCP/FOLDB/	ACK		
Anti Reverse rrigation Protection	No(customers can purchase other accessories 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
Jnit Weight/Shipping Weight	14.7kg/18.7kg	14.7kg/18.7kg	13.2kg/16.8kg	13.2kg/16.8kg
Dimensions(WxHxD)	423.0x87.0x514.0 mm	423.0x87.0x514.0 mm	423.0x87.0x469.0 mm	423.0x87.0x469.0 mm
Communication Modes	1. RS232/RS485/USB/LAN; 2. RS	S232/RS485/USB/LAN/GPIB		
Operating Environment	·		; Pollution degree 2, Installation cate	gory 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.

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			
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
urrent 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
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]	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			
VM Resolution	1mV	1mV	12mV	12mV
VM Precision [1]	0.1%+15mV	0.1%+15mV	0.05%+150mV	0.05%+200mV
perating Mode	Constant voltage (CV) / Constant cu	irrent (CC)		
emote Compensation	5V MAX			
Master-slave Control	Yes			
desponse (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
fficiency (full load)	90%	90%	90%	91%
		Other		
rotection Function	OVP/OCP/OTP/OPP/SCP/FOLDBA	ACK		
nti Reverse rigation Protection	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
Init Weight/Shipping Weight	13.2kg/16.8kg	13.2kg/16.8kg	14.7kg/18.7kg	14.7kg/18.7kg
Dimensions(WxHxD)	423.0x87.0x469.0 mm	423.0x87.0x469.0 mm	423.0x87.0x514.0 mm	423.0x87.0x514.0 mm
Communication Modes	1. RS232/RS485/USB/LAN; 2. RS	232/RS485/USB/LAN/GPIB		
Operating Environment	Temperature 0~40°C, Relative Humi	dity 10%~90%(no condensation)	; Pollution degree 2, Installation cate	gory II, Indoor use.
	Forced air-cooling	,		
Cooling Mode				
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.

3000W in 2U(1)

Model	SP32VDC3000W	SP40VDC3000W	SP80VDC3000W	SP120VDC3000W
		Input		
Input Voltage	190~265VAC			
Input Frequency	47~63Hz			
Power Factor	>0.98			
Input 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			
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		2mA	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
	60mVp-p	40mVp-p	40mVp-p	80mVp-p
Voltage Ripple [2]	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)
Line Regulation(Voltage)	0.01%+8mV	0.01%+8mV	0.01%+8mV	0.02%+8mV
ine Regulation(Current)	200mA	30mA	30mA	30mA
Voltage Temperature Coefficient [4]	100ppm/°C			<u> </u>
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 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)
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)	91%	88%	91%	91%
		Other		
Protection Function	OVP/OCP/OTP/OPP/SCP/FOLDBA	ACK		
Anti Reverse rrigation Protection	No(customers can purchase other accessorie to achieve this function, please consult the salesrepresentative for details)	s 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
Jnit Weight/Shipping Weight	14.7kg/18.7kg	14.7kg/18.7kg	13.2kg/16.8kg	13.2kg/16.8kg
Dimensions(WxHxD)	423.0x87.0x514.0 mm	423.0x87.0x514.0 mm	423.0x87.0x469.0 mm	423.0x87.0x469.0 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			
nsulation	AC input <->DC output, 4242VDC, AC input <-> PE, 2121VDC			
nodiation	AG IIIput <->DG output, 4242VDC,	AC 111put <-> PE, 2121VDC		

^{[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.

■ 3000W in 2U(2)

Model	SP150VDC3000W	SP200VDC3000W	SP600VDC3000W	SP800VDC3000W
		Input		
nput Voltage	190~265VAC			
nput Frequency	47~63Hz			
Power Factor	>0.98			
nput Power	3400VA(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	0~3000W			
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			
/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
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
/altana Dinala [2]	80mVp-p	150mVp-p	350mVp-p	800mVp-p
Voltage Ripple [2]	15mVrms	30mVrms	40mVrms	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 c	urrent (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)
oad 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/FOLDB/	ACK		
Anti Reverse rrigation Protection	Yes			
nput 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
		13.2kg/16.8kg	14.7kg/18.7kg	14.7kg/18.7kg
Jnit Weight/Shipping Weight	423.0x87.0x469.0 mm	423.0x87.0x469.0 mm	423.0x87.0x514.0 mm	423.0x87.0x514.0 mm
	1. RS232/RS485/USB/LAN; 2. RS232/RS485/USB/LAN/GPIB			
Dimensions(WxHxD)		S232/RS485/USB/LAN/GPIB		
imensions(WxHxD) Communication Modes	1. RS232/RS485/USB/LAN; 2. RS		; Pollution degree 2. Installation cate	gory II, Indoor use.
Dimensions(WxHxD) Communication Modes Operating Environment	1. RS232/RS485/USB/LAN; 2. RS Temperature 0~40°C, Relative Hum		; Pollution degree 2, Installation cate	gory II, Indoor use.
Dimensions(WxHxD) Communication Modes Operating Environment Cooling Mode	1. RS232/RS485/USB/LAN; 2. RS		; Pollution degree 2, Installation cate	gory II, Indoor use.

^{[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		
Input Voltage	190~265VAC			
Input Frequency	47~63Hz			
Power Factor	>0.98			
Input Power	4800VA(MAX)	4500VA(MAX)	4500VA(MAX)	4500VA(MAX)
patrono.	ices (A(IIII III)	Output	1000 17 (117 117)	1000 17 ((u.))
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	0.4120A	0.400A	0.40A
Voltage Load Regulation	30mV	15mV	15mV	15mV
Current Load Regulation	200mA	120mA	60mA	40mA
-	0.1mV		0.1mV	1mV
Voltage Display Resolution		0.1mV		
Current Display Resolution	1mA	1mA	0.1mA	0.1mA
Voltage Programmable Resolution		1mV	2mV	3mV
Current Programmable Resolution		3mA	2mA	1mA
Voltage 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
Voltage Measurement Accuracy 111	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
Voltage 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
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 co		10000	1 20 2 2200
Remote Compensation	4V MAX	4V MAX	5V MAX	5V MAX
Master-slave Control	Yes	17 110 00	00 1111 111	
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	210m3 (rumodu)	3201113 (Tull Todd)	321113 (Iuli Ioda)
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%
inciency (run load)	71.0	Other	7.10	72.0
Protection Function	OVP/OCP/OTD/ODD/SCD/EOLDB			
Protection Function	OVP/OCP/OTP/OPP/SCP/FOLDBA No(customers can purchase other accessorie			
Anti Reverse rrigation Protection	to achieve this function, please consult the salesrepresentative for details)	Yes	Yes	Yes
nput Fuse	40A, 125VAC/250VAC, fast-acting type			
Jnit Weight/Shipping Weight	14.7kg/18.7kg	14.7kg/18.7kg	13.2kg/16.8kg	13.2kg/16.8kg
Dimensions(WxHxD)	423.0x87.0x514.0 mm	423.0x87.0x514.0 mm	423.0x87.0x469.0 mm	423.0x87.0x469.0 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			
nsulation	AC input <->DC output, 4242VDC,	ΔC innut <-> PF 2121VDC		
	ut voltage less than 5V offset voltage	•		

^{[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

^{[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.

4000W in 2U(2)

Model	SP150VDC4000W	SP200VDC4000W	SP600VDC4000W	SP800VDC4000W	
		Input			
Input Voltage	190~265VAC				
Input 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	
Voltage Display Resolution	1mV		'		
Current Display Resolution	0.1mA				
Voltage Programmable Resolution	3mV	4mV	12mV	24mV	
Current Programmable Resolution		<u> </u>			
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	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/FOLDE	BACK			
Anti Reverse Irrigation Protection	Yes				
Input Fuse	40A, 125VAC/250VAC, fast-acting type				
Unit Weight/Shipping Weight	13.2kg/16.8kg	13.2kg/16.8kg	14.7kg/18.7kg	14.7kg/18.7kg	
Dimensions(WxHxD)	423.0x87.0x469.0 mm	423.0x87.0x469.0 mm	423.0x87.0x514.0 mm	423.0x87.0x514.0 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.

