



# SP Series 1600W Programmable DC Power Supply

SP Series 1600W programmable DC power supply has the features including high precision and resolution, high efficiency low ripple, complete multiple protection, Master/Slave Series/Parallel modes, and multiple communication interfaces, which allow a more flexible and convenience use of the power supply.



## Features

- \* 1.6 kW / 1U high power density.
- \* Master /slave parallel & series operation modes for up to 4 units.
- \* With accurate voltage and current measurement capability.
- \* High-speed programmable interface.
- \* Coded knob, multifunctional keyboard.
- \* Freely switchover between constant voltage (CV) and constant current (CC) operating modes.
- \* Voltage rate of rise and drop functions.
- \* Equips with LIST waveform editing function.
- \* Protection functions: OVP, OCP, OPP, SCP and OTP.
- \* Standard RS232, RS485, LAN and USB communication interfaces (ports).
- \* Use the Standard Commands for Programmable Instrumentation (SCPI) communication protocol.
- \* Standard analog external remote inputs.
- \* Remote sensing line voltage-drop compensation.
- \* DVM independent measurement function.
- \* Have obtained CE, UL, CSA ,FCC,ROHS and other certifications.

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Model	SP32VDC1600W	SP40VDC1600W
Input Voltage Range	90~265VAC	90~265VAC
Input Frequency Range	47~63Hz	47~63Hz
Power Factor	>0.98	>0.98
Output Power Range	0~1600W	0~1600W
Output Voltage Range	0~32V	0~40V
Output Current Range	0~50A	0~40A
Voltage Display resolution	0.1mV	0.1mV
Current Display Resolution	0.2mA	0.2mA
Voltage Programmable Resolution	1.5mV	1.5mV
Current Programmable Resolution	2mA	2mA
Voltage Setting Accuracy	0.05%+15mV	0.05%+15mV
Current Setting Accuracy	0.1%+50mA	0.1%+40mA
Voltage Measurement Accuracy	0.05%+15mV	0.05%+15mV
Current Measurement Accuracy	0.1%+50mA	0.1%+40mA
Voltage Ripple	40mVp-p/6mVrms	
Current Ripple	50mA(Full Range) 20mA(TYP value)	40mA(Full Range) 20mA(TYP value)
Voltage Load Regulation	10mV	10mV
Current Load Regulation	50mA	40mA
Line Voltage Regulation	0.005%+1mV	0.005%+1mV
Line Current Regulation	4mA	4mA
Voltage Temperature Coefficient	100ppm/°C	
Current Temperature Coefficient	150ppm/°C	
DVM Resolution	0.1mV	0.1mV
DVM Accuracy	0.05%+15mV	0.05%+15mV
Operating Mode	Constant voltage (CV) / Constant Current (CC)	
Remote Compensation	4V MAX	
Response ( Voltage Rise)	≤10ms	≤10ms
Response ( Voltage Drop)	≤150ms(No Load) ≤10ms(Full Load)	≤150ms(No Load) ≤10ms(Full Load)
Load Transient Recovery Time	≤2ms	≤2ms
Command Respond Time	50ms	50ms
Efficiency (Full Load)	89%	90%
Communication Modes	RS232/RS485/USB/LAN	
Protection Functions	OVP/OCP/OTP/OPP/SCP protection functions	
Net Weight	9.2kg	9.2kg
Weight of Accessories	0.8kg	0.8kg
Dimensions (W x H x D)	483.0x44.0x531.0 mm	
Operating Environment	Temperature: 0°C to 40°C, Relative humidity: 10% to 90% (non-condensing)	
Cooling	Forced air-cooling	
Certification	CE/UL/CSA/FCC/RoHS	

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