



APM Technologies

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 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/OC/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	

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