SPX Series Single Output DC Power Supply Technical Specifications

The instrument must be operated continuously for more than 30 minutes at the specified operating temperature to achieve the following specifications.

Model	SPX3103	SPX6103	SPX6205	SPX6106
Input Characteristics				
Supply Voltage	100-120V/AC, 198V-240 V/AC		100-240V/AC	198V-240 V/AC
Input Fuse	250V, F10A; 250V, F5A		250V, F10A	250V, F10A
Input Frequency	50/60 Hz		50/60 Hz	50/60 Hz
Rated Output				
Voltage	0~30V	0~60V	0~60V	0~64V
Current	0~10A	0~10A	0~20A	0~10A
Power	300W	300W	500W	600W
Regulation(CV)[1]				
Load	≤33mV			
Line	≤33mV			
Regulation(CC)				
Load	≤30mA			
Line	≤20mA			
Ripple & Noise (Noise bandwidth 20MHz, ripple bandwidth 1MHz, connect 10uF electrolytic capacitor in parallel with 0.1uF ceramic capacitor to the output terminal for testing)				
Voltage (Vrms)	≤40mVrms	≤60mVrms	≤60mVrms	≤60mVrms
Current (Arms)	≤40mArms	≤40mArms	≤40mArms	≤40mArms
Setting Resolution				
Voltage	10mV	10mV	10mV	10mV
Current	1mA	1mA	1mA	1mA
Readback Resolution				
Voltage	10mV	10mV	10mV	10mV
Current	1mA	1mA	1mA	1mA
Setting Accuracy				
Voltage	≤0.2%+0.2%FS			

Model	SPX3103	SPX6103	SPX6205	SPX6106
Current	≤0.2%+0.2%FS			
Readback Accuracy				
Voltage	≤0.2%+0.2%FS			
Current	≤0.2%+0.2%FS			
Response time				
Transient recovery time (10%~90% rated load)	≤5.0ms			
Protective function				
OVP	0~31V	0~61V	0~61V	0~65V
OCP	0~11A	0~11A	0~21A	0~11A
OTP	85℃	85℃	85℃	85℃
Temperature coefficient of output				
Voltage	100ppm/℃			
Current	200ppm/℃			
Temperature coefficient of readback value				
Voltage	100ppm/℃			
Current	200ppm/℃			
Display				
Display Type	3 x 4bit LED			
Environment				
Temperature	Working Temperature: 0℃～40℃ Storage Temperature: -20℃～60℃			
Relative Humidity	≤90%RH; no condensation			
Height	2,000 meters			
Cooling	Fan cooling, temperature intelligent speed control			
Others				
Dimension	82mm(Width)× 142mm(Height)×226mm(Depth)			
Weight	Approx. 1.5kg		Approx. 1.8kg	Approx. 1.8kg

[1]: Voltage regulation accuracy is tested under the worst-case rated full-power output condition: maximum rated voltage output in CV mode, or maximum current output in CC mode.

Load Regulation Test Condition: No load to full load.

Line Regulation Test Condition: Rated load, with input voltage varying within the specified range.

Interval Period of Adjustment: One year is recommended for the calibration interval period.

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