

SPE80 Series Single Channel Power Supply

Technical Specification

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

Model	SPE6205	SPE8105	SPE8205
Input Characteristics			
Supply Voltage	100V-240V		
Input Frequency	45~65Hz		
Input Fuse	250V,F10A		
Rated Output			
Voltage	0~60V	0~80V	0~80V
Current	0~20A	0~10A	0~20A
Power	500W	500W	500W
Regulation(CV)			
Load	≤20mV		
Line	≤20mV		
Regulation(CC)			
Load	≤10mA		
Line	≤10mA		
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 (Vp-p)	≤50mVp-p	≤50mVp-p	≤50mVp-p
Current (rms)	≤15mA	≤15mA	≤15mA
Setting Resolution			
Voltage	10mV	10mV	10mV
Current	1mA	1mA	1mA
Readback Resolution			
Voltage	10mV	10mV	10mV
Current	1mA	1mA	1mA
Setting Accuracy			
Voltage	≤0.05%±20mV		
Current	≤0.05%±10mA	≤0.05%±10mA	≤0.05%±20mA
Readback Accuracy			
Voltage	≤0.05%±20mV		
Current	≤0.05%±10mA	≤0.05%±10mA	≤0.05%±20mA
Response time			
Transient recovery time	≤5.0ms		

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(10%~90% rated load)			
Protective function			
OVP	0~63V	0~85V	0~85V
OCP	0~21A	0~11A	0~21A
OTP	85℃	85℃	85℃
Temperature coefficient of output			
Voltage	100ppm/℃		
Current	200ppm/℃		
Temperature coefficient of readback value			
Voltage	100ppm/℃		
Current	200ppm/℃		
Display			
Display Type	2.8-inch color LCD display (IPS screen)		
Resolution	240 × 320 pixels		
Color	65536 color,TFT		
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		
Other			
Communication Port	USB communication, LAN communication (optional), compatible with SCPI		
Dimension	82mm（Width）× 142mm（Height）×226mm（Depth）		
Weight	Approx. 1.5 kg		



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V1.0.0