

SPE15 Series Single Output 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	SPE15054	SPE15105
Input Characteristics		
Supply Voltage	100V-240V	
Input Frequency	45~65Hz	
Input Fuse	250V,F10A	
Rated Output		
Voltage	0~150V	0~150V
Current	0~5A	0~10A
Power	400W	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)	≤150mVp-p	≤150mVp-p
Current (rms)	≤30mA	≤30mA
Setting Resolution		
Voltage	10mV	10mV
Current	1mA	1mA
Readback Resolution		
Voltage	10mV	10mV
Current	1mA	1mA
Setting Resolution		
Voltage	≤0.05%±20mV	
Current	≤0.05%±20mA	≤0.05%±20mA
Readback Resolution		
Voltage	≤0.05%±20mV	
Current	≤0.05%±20mA	≤0.05%±20mA
Response time		
Transient recovery time (50%~100% rated load)	≤5.0ms	
Protection function		

Model	SPE15054	SPE15105
OVP	0~155V	0~155V
OCP	0~6A	0~11A
OTP	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 Panel)	
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,DB9:RS232/RS485 (optional), LAN (optional), compatible with the SCPI communication protocol	
Dimension	82mm(W)× 142mm(H)×226mm(D)	
Weight	Approx. 1.6kg	



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V1.0.0

SPE30 Series Single Output 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	SPE30054	SPE30055
Input Characteristics		
Supply Voltage	100V-240V	
Input Frequency	45~65Hz	
Input Fuse	250V,F10A	
Rated Output		
Voltage	0~300V	0~300V
Current	0~5A	0~5A
Power	400W	500W
Regulation (CV)		
Load	≤30mV	
Line	≤30mV	
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)	≤300mVp-p	≤300mVp-p
Current (rms)	≤30mA	≤30mA
Setting Resolution		
Voltage	10mV	10mV
Current	1mA	1mA
Readback Resolution		
Voltage	10mV	10mV
Current	1mA	1mA
Setting Resolution		
Voltage	≤0.05%±200mV	
Current	≤0.05%±20mA	≤0.05%±20mA
Readback Resolution		
Voltage	≤0.05%±200mV	
Current	≤0.05%±20mA	≤0.05%±20mA
Response time		
Transient recovery time (10%~90% rated load)	≤5.0ms	

Model	SPE30054	SPE30055
Protection function		
OVP	0~310V	0~310V
OCP	0~6A	0~6A
OTP	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 Panel)	
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, DB9(RS232/485)(optional), LAN(optional), compatible with the SCPI communication protocol	
Dimension	82mm(W)× 142mm(H)×226mm(D)	
Weight	Approx. 1.6kg	



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SPE50 Series Single Output 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	SPE50024	SPE50025
Input Characteristics		
Supply Voltage	100V-240V	
Input Frequency	45~65Hz	
Input Fuse	250V,F10A	
Rated Output		
Voltage	0~500V	0~500V
Current	0~2A	0~2A
Power	400W	500W
Regulation (CV)		
Load	≤200mV	
Line	≤200mV	
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)	≤500mVp-p	≤500mVp-p
Current (rms)	≤20mA	≤20mA
Setting Resolution		
Voltage	10mV	10mV
Current	1mA	1mA
Readback Resolution		
Voltage	10mV	10mV
Current	1mA	1mA
Setting Accuracy		
Voltage	≤0.05%±200mV	
Current	≤0.05%±20mA	≤0.05%±20mA
Readback Accuracy		
Voltage	≤0.05%±200mV	
Current	≤0.05%±20mA	≤0.05%±20mA
Response time		
Transient recovery time (10%~90% rated load)	≤5.0ms	
Protection function		

Model	SPE50024	SPE50025
OVP	0~510V	0~510V
OCP	0~3A	0~3A
OTP	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 Panel)	
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	
Others		
Communication Port	USB, LAN(optional), DB9:RS232(optional), compatible with the SCPI communication protocol	
Dimension	82mm(W)× 142mm(H)×226mm(D)	
Weight	Approx. 1.6kg	

