

## SPS 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:

Specifications	SPS6051	SPS3081
<b>Input Characteristics</b>		
Supply Voltage	85V-265V	
Input Frequency	45~65Hz	
Full Input Current	≤5.6A	≤5.6A
No-Load Input Current	≤300mA	≤300mA
Input Fuse	250V,F10A	250V,F10A
<b>Rated Output</b>		
Voltage	0~61V	0~31V
Current	0~5.1A	0~8.1A
Power	150W	120W
Efficiency(110Vac,rated load)	84.27%	82%
Efficiency(220Vac,rated load)	87.21%	88%
<b>Regulation(CV)</b>		
Load	≤30mV	≤30mV
Line	≤20mV	≤20mV
<b>Regulation(CC)</b>		
Load	≤30mA	≤30mA
Line	≤20mA	≤20mA
<b>Ripple &amp; Noise (Noise bandwidth 20MHz, ripple bandwidth 1MHz, connect 10uF electrolytic capacitor in parallel with 0.1uF ceramic capacitor to the output terminal for testing)</b>		
Voltage(Vp-p)	≤30mV	≤30mV
Voltage(rms)	≤4mV	≤5mV
Current(Ap-p)	≤10mA	≤30mA
<b>Setting resolution</b>		
Voltage	10mV	10mV
Current	1mA	1mA
<b>Readback Resolution</b>		
Voltage	10mV	10mV
Current	1mA	1mA
<b>Setting Accuracy</b>		
Voltage	≤0.05%±20mV	≤0.1%±20mV
Current	≤0.05%±20mA	≤0.2%±20mA

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<b>Readback Accuracy</b>		
Voltage	≤0.05%±20mV	≤0.1%±20mV
Current	≤0.05%±20mA	≤0.2%±20mA
<b>Response time</b>		
Transient recovery time (50%~100% rated load)	≤1.0ms	
<b>Protection function</b>		
OVP	0~62V	0~32V
OCP	0~5.2A	0~8.2A
OTP	85℃	85℃
<b>Temperature coefficient of output</b>		
Voltage	100ppm/℃	
Current	200ppm/℃	
<b>Temperature coefficient of readback value</b>		
Voltage	100ppm/℃	
Current	200ppm/℃	
<b>Display</b>		
Display Type	2.8 inches color LCD	
Resolution	240(horizontal) × 320(vertical) pixels	
Color	65536 color,TFT	
<b>Environment</b>		
Temperature	Working Temperature:0℃~40℃ Storage Temperature:-20℃~60℃	
Relative Humidity	≤90%RH; no condensation	
Height	2,000 meters	
Cooling	Natural cooling	
<b>Other</b>		
Communication Port	USB communication, compatible with SCPI communication protocol	
Dimension	82mm(Width)× 142mm(Height)×226mm(Depth)	
Weight	Approx. 1.8 kg	



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