

# Single Channel DC Bench Top Power Supply **multicomp**PRO

RoHS  
Compliant



## Description

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

## Specification

	MP711127	MP711130	MP711128	MP711129	MP711131
<b>Input Characteristics</b>					
<b>Supply Voltage</b>	220Vac $\pm$ 15%, please supply power according to the mark on the left of the power input socket on the rear panel of the instrument				
<b>Input Frequency</b>	45~65Hz	45~65Hz	45~65Hz	45~65Hz	45~65Hz
<b>Input Parameter (220Vac<math>\pm</math>15%)</b>					
<b>Input Voltage Range</b>	187~253Vac	187~253Vac	187~253Vac	187~253Vac	187~253Vac
<b>Full Load Input Current</b>	$\leq$ 1.4A	$\leq$ 2.8A	$\leq$ 1.4A	$\leq$ 1.4A	$\leq$ 2.8A
<b>No-Load Input Current</b>	$\leq$ 100mA	$\leq$ 150mA	$\leq$ 150mA	$\leq$ 150mA	$\leq$ 150mA
<b>Input Fuse</b>	250V,F3A	250V,F5A	250V,F3A	250V,F3A	250V,F5A
<b>Rated Output</b>					
<b>Voltage</b>	0~30V	0~60V	0~30V	0~60V	0~60V
<b>Current</b>	0~5A	0~5A	0~10A	0~10A	0~10A
<b>Power</b>	150W	300W	200W	200W	300W
<b>Efficiency (110Vac, rated load)</b>	80%	80%	80%	80%	80%
<b>Efficiency (220Vac, rated load)</b>	85%	85%	85%	85%	85%
<b>Regulation (CV)</b>					
<b>Load</b>	$\leq$ 30mV	$\leq$ 30mV	$\leq$ 30mV	$\leq$ 30mV	$\leq$ 30mV
<b>Line</b>	$\leq$ 20mV	$\leq$ 20mV	$\leq$ 20mV	$\leq$ 20mV	$\leq$ 20mV
<b>Regulation (CC)</b>					
<b>Load</b>	$\leq$ 30mA	$\leq$ 30mA	$\leq$ 30mA	$\leq$ 30mA	$\leq$ 30mA
<b>Line</b>	$\leq$ 20mA	$\leq$ 20mA	$\leq$ 20mA	$\leq$ 20mA	$\leq$ 20mV

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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)	≤30mV	≤30mV	≤30mV	≤50mV	≤50mV
Voltage (rms)	≤3mV	≤3mV	≤3mV	≤5mV	≤5mV
Current (Ap-p)	≤30mA	≤30mA	≤30mA	≤30mA	≤30mA
Setting Resolution					
Voltage	10mV	10mV	10mV	10mV	10mV
Current	1mA	1mA	1mA	1mA	1mA
Readback Resolution					
Voltage	10mV	10mV	10mV	10mV	10mV
Current	1mA	1mA	1mA	1mA	1mA
Setting Accuracy					
Voltage	≤0.1%±20mV	≤0.1%±20mV	≤0.1%±20mV	≤0.1%±30mV	≤0.1%±30mV
Current	≤0.1%±10mA	≤0.1%±10mA	≤0.1%±10mA	≤0.1%±10mA	≤0.1%±10mA
Readback Accuracy					
Voltage	≤0.1%±20mV	≤0.1%±20mV	≤0.1%±20mV	≤0.1%±30mV	≤0.1%±30mV
Current	≤0.1%±10mA	≤0.1%±10mA	≤0.1%±10mA	≤0.1%±10mA	≤0.1%±10mA
Response time					
Transient recovery time (50%~100% rated load)	≤1ms				
Protective function					
OVP	0~31V	0~61V	0~31V	0~61V	0~61V
OCP	0~5.1A	0~5.1A	0~10.1A	0~10.1A	0~10.1A
OTP	85°C	85°C	85°C	85°C	85°C
Temperature coefficient of output					
Voltage	100ppm/°C				
Current	200ppm/°C				
Temperature coefficient of readback value					
Voltage	100ppm/°C				
Current	200ppm/°C				
Display					
Display Type	2.8inches color LCD				
Resolution	240 × 320 pixels				
Color	65536 color,TFT				
Environment					
Temperature	Working Temperature:0°C to 40°C Storage Temperature:-20°C to 60°C				
Relative Humidity	≤90%RH; no condensation				
Height	2,000 meters				
Cooling	Fan cooling, temperature intelligent speed control				

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	MP711127	MP711130	MP711128	MP711129	MP711131
Other					
Communication Port	USB communication, compatible with SCPI communication protocol				
USB Charging Port	5V/1A charging				
Dimension	82mm (Width) × 142mm (Height) × 226mm (Length)				
Weight	Approx. 1.5 kg				

## Part Number Table

Description	Part Number
Bench Top Power Supply, 1Ch, 30V, 5A, 150W	MP711127
Bench Top Power Supply, 1Ch, 30V, 10A, 200W	MP711128
Bench Top Power Supply, 1Ch, 60V, 10A, 200W	MP711129
Bench Top Power Supply, 1Ch, 60V, 5A, 300W	MP711130
Bench Top Power Supply, 1Ch, 60V, 10A, 300W	MP711131

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