Single Channel DC Bench Top Power Supply

RoHS Compliant



Features

- DC power supply+multimeter
- Small body for easy carry
- USB communication interface, support SCPI

Power Supply Specifications

- 150W and 300W Output Power
- High resolution: 10mV / 1mA
- List waveform editing output, editable 10 groups of timing output function
- Over voltage / over current protection
- Output voltage and current curve monitoring function

Multimeter Specifications

- 4 1/2 digits multimeter
- Support Voltage, current, Capacitance, Resistance,Continuity, and Diode test

Power supply parameter

Specifications	MP711132 US	MP711133 US	MP711134 US	MP711135 US
Input Characteristics				
Supply Voltage	110V AC ±10%, please supply power according to the mark on the left of the power input socket on the rear panel of the instrument			
Input Frequency	50~60Hz	50~60Hz	50~60Hz	50~60Hz
Input Fuse	250V, F5A	250V, F10A	250V, F10A	250V, F10A
Rated Output				
Voltage	0~30V	0~60V	0~30V	0~60V
Current	0~5A	0~5A	0~10A	0~10A
Power	150W	300W	300W	300W
Regulation (CV)				
Load	≤30mV	≤30mV	≤30mV	≤30mV
Line	≤20mV	≤20mV	≤20mV	≤20mV
Regulation (CC)				
Load	≤30mA	≤30mA	≤30mA	≤30mA
Line	≤20mA	≤20mA	≤20mA	≤20mA

Specifications	MP711132 US	MP711133 US	MP711134 US	MP711135 US
Ripple & Noise (Noise bandwidth 20MHz, ripple bandwidth 1MHz, connect 10uF electrolytic capacitor in par-allel with 0.1uF ceramic capacitor to the output terminal for testing)4				
Voltage (Vp-p)	≤30mV	≤30mV	≤30mV	≤50mV
Voltage (rms)	≤3mV	≤3mV	≤3mV	≤5mV
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	≤0.1%±20mV	≤0.1%±20mV	≤0.1%±20mV	≤0.1%±30mV
Current	≤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
Current	≤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
OCP	0~5.1A	0~5.1A	0~10.1A	0~10.1A
OTP	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			

DMM Parameters

Characteristics	Instruction
Display	19999
measurement	Voltage, current, resistance, capacitor, diode, on-off
Input Impedance	≥10 MΩ
Diodes Test	0~2V

Function	Measurement Range	Function
DC Voltage	200.00mV	±(0.3%+10dig)
	2.0000V/20.000V/200.00V	±(0.3%+5dig)
	1000.0V	
AC Voltage	200.00mV /2.0000V/20.000V/200.00V	±(0.8%+10dig)
	750V	±(1.0%+10dig)
DC Current	200.00mA	±(0.8%+10dig)
	10.000A	±(2.5%+10dig)
AC Current	200.00mA	±(1.0%+10dig)
	10.000A	±(2.8%+10dig)
Resistance (Ω)	200.00Ω/2.0000kΩ/20.000kΩ/200.00kΩ/2.0000MΩ	±(0.8%+10dig)
	20.000MΩ	±(1.0%+3dig)
	100.00MΩ	±(5.0%+10dig)
Capacitance (F)*	20.000nF/200.00nF/2.0000uF/20.000uF/200.00uF/2.0000mF	±(3.0%+10dig)
Frequency Response (Hz)	(40 to 1000) Hz	

*When measuring AC voltage/current or capacitance, accuracy guarantee range is 5% to 100% of the range.

Other

Display	
Display Type	2.8inches colour LCD
Resolution	240 × 320 pixels
Colour	65536 colour,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
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 With DMM, 30V, 5A, 150W	MP711132 US
Bench Top Power supply With DMM, 60V, 5A, 300W	MP711133 US
Bench Top Power supply With DMM, 30V, 10A, 300W	MP711134 US
Bench Top Power supply With DMM, 60V, 10A, 300W	MP711135 US

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