

E2010 Series

Electronic Loads and DC Sources



THE POWER TEST EXPERTS



M88xx DC Source

Features

- Low Ripple and Noise (<10mV @150VDC)
- Built-in 5-1/2 Digit DVM
- 16-Bit Program and Measurement Resolution
- Outputs Voltages from 6V to 150VDC
- Power from 150W to 1200W
- USB, Serial or Ethernet Interface
- 50 User Programmed Stored States

Overview

The M88xx series of linear output DC sources are ideal in those applications where the input power must not affect the UUT performance. Ultra-low noise, fast rise times and response times make these power supplies ideal for laboratory and ATE systems.

The M88xx series DC source is programmable either from the front panel or via the communication bus, these power supplies can transition from one voltage to the another in a just few milliseconds. Using the programmable stored states, a user can store up to 200 steps and 8 programs. Steps can be as little as 1 ms in length. Programs execute these steps in one continuous run, a repetitive loop, or single step modes, that executes a single step and waits for a trigger before continuing.

Specifications							
Model		M8811	M8812	M8813	M8851	M8852	M8853
Output Rating	Power	150 Watts	150 Watts	150 Watts	360 Watts	600 Watts	600 Watts
	Voltage	0 - 30 Volts	0-75 Volts	0 - 150 Volts	0 - 6 Volts	0 - 30 Volts	0 - 75 Volts
	Current	0 - 5 Amps	0 - 2 Amps	0 - 1 Amp	0 - 60 Amps	0 - 20 Amps	0 - 8 Amps
Ripple / Noise	Voltage (P-P)	3mV	5mV	10mV	3mV	5mV	7mV
	Current (RMS)	2mA	1mA	0.5mA	15mA	7mA	4mA
Load Regulation	Voltage	<0.01%+0.5mV	<0.01%+0.5mV	<0.01%+0.5mV	<0.01%+1mV	<0.01%+1mV	0.01%+1mV
	Current	<0.01%+0.1mA	<0.01%+0.1mA	<0.01%+0.1mA	<0.01%+0.1mA	<0.01%+0.1mA	0.01%+0.1mA
Setting Resolution	Voltage	0.5mV	1mV	2mV	0.1mV	0.5mV	1mV
	Current	0.1mA	0.05mA	0.01mA	1mA	0.5mA	0.2mA
Setting Accuracy	Voltage	0.01%+2mV	0.01%+5mV	0.01%+15mV	0.01%+1mV	0.01%+5mV	0.01%+10mV
	Current	0.05%+1mA	0.05%+0.5mA	0.05%+0.1mA	0.05%+6mA	0.05%+2mA	0.05%+1mA
Meas Resolution	Voltage	0.1mV	0.1mV	1mV	0.1mV	0.1mV	0.1mV
	Current	0.01mA	0.01mA	0.01mA	0.1mA	0.1mA	0.1mA
Meas Accuracy	Voltage	0.02%+5mV	0.02%+12mV	0.02%+25mV	0.02%+2mV	0.02%+5mV	0.02%+12mV
	Current	0.1%+5mA	0.05%+2mA	0.05%+1mA	0.05%+30mA	0.05%+10mA	0.05%+5mA
DVM Accuracy (External Meas)	0-12VDC Range	0.02%+2mV					
	0-58VDC Range	0.02%+5mV					
Ohmmeter Accuracy	0 to 1000mΩ	0.02% + 3mΩ					
	1000 to 10,000mΩ	0.02% + 6mΩ					
AC Line	120/230 50/60Hz						
Environment		0-40 deg C / 0-90% RH (non-condensing) operating					
Size	W x H x D	214 x 108 x 365 (mm)	8.4 x 4.3 x 14.4 (in.)	428 x 103.5 x 453.5 (mm)	16.9 x 4.1 x 17.9 (in.)		
Weight		6.5 KG	14.3 LBS	28 KG	61.6 LBS		

Specifications

Model		M8871	M8872	M8873	M8874
Output Rating	Power	900 Watts	1050 Watts	1125 Watts	1100 Watts
	Voltage	0-15 Volts	0 - 30 Volts	0 - 75 Volts	0 - 100 Volts
	Current	0 - 60 Amps	0 - 35 Amps	0 - 15 Amps	0 - 11 Amps
Ripple / Noise	Voltage (P-P)	4mV	5mV	6mV	8mV
	Current (RMS)	10mA	5mA	3mA	2.5mA
Load Regulation	Voltage	<0.01%+1mV	<0.01%+1mV	<0.01%+1mV	0.01%+1mV
	Current	<0.01%+0.1mA	<0.01%+0.1mA	<0.01%+0.1mA	0.01%+0.1mA
Setting Resolution	Voltage	0.1mV	0.5mV	2mV	2mV
	Current	1mA	0.5mA	0.2mA	0.2mA
Setting Accuracy	Voltage	0.01%+1mV	0.01%+5mV	0.01%+10mV	0.01%+15mV
	Current	0.05%+6mA	0.05%+2mA	0.05%+1mA	0.05%+1mA
Meas Resolution	Voltage	0.1mV	0.1mV	0.1mV	0.1mV
	Current	0.1mA	0.1mA	0.1mA	0.1mA
Meas Accuracy	Voltage	0.03%+3mV	0.03%+5mV	0.03%+15mV	0.03%+25mV
	Current	0.05%+45mA	0.05%+25mA	0.05%+12mA	0.05%+10mA
DVM Accuracy (External Meas)	0-12VDC Range	0.02%+2mV			
	0-58VDC Range	0.02%+5mV			
Ohmmeter Accuracy	0 to 1000mΩ	0.02% + 3mΩ			
	1000 to 10,000mΩ	0.02% + 6mΩ			
AC Line	120/230 50/60Hz				
Environment		0-40 deg C / 0-90% RH (non-condensing) operating			
Size	W x H x D	482 x 184.5 x 531 (mm)		19 x 7.26 x 20.9 (in.)	
Weight		45 KG		99 LBS	