Maynuo Electronics

Maynuo Electronics devotes to providing production lines and laboratories with the right test instruments.



M97 Series Programmable DC Electronic Load

M97series DC electronic load, as a new generation product of Maynuo Electronical Co., Ltd, is designed with high-performance chips, high speed, high accuracy and with resolution of 0.1 Mv and 0.01 mA (the basic accuracy is 0.03%, the basic current rise speed is 2.5 A/ us). M97 series has a wide application in production line (cell phone charger, cell phone battery, electric vehicle battery, Switching power supplier, linear power supplier), research institutes, automotive electronics, aeronautics and astronautics, ships, solar cells, fuel cell, etc.
M97 series offers users with its novel design, rigorous process and attractive cost-effectiveness.

Features

- Six high speed operation molds: CC,CR,CV,CW,CC+CV,CR+CW
- Over current, over voltage, over power, over heat, polarity reversed protection
- High-luminance VFD screen with two lines& four channels display
- Intellegent fan system fan will be automatically initiated according to the temperature
- Soft start time setting, carrying the power supplier according to the voltage value set
- Battery testing and short-circuit function
- Available of dynamic testing and rising edge and falling edge setting
- Supporting external trigger input and output
- External current waveform monitor terminal
- Supporting remote voltage compensation and multidata storage
- Power-on-self-test， software calibration and standard rack mount
- Communication mode: GPIB/RS232/RS485/USB.

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M97 Series Programmable DC Electronic Load Technical Specification Table

Model		M9711		M9712		M9712B		M9712C	
Input Rating	Power	150W		300W		300W		300W	
	Current	0-30A		0-30A		0-15A		0-60A	
	Voltage	0-150V		0-150V		0-500V		0-150V	
CC Mode	Range	0-3A	0-30A	0-3A	0-30A	0-3A	0-15A	0-6A	0-60A
	Resolution	0.1mA	1mA	0.1mA	1mA	0.1mA	1mA	0.1mA	1mA
	Accuracy	0.03%+0.05%FS	0.03%+0.05%FS	0.03%+0.05%FS	0.03%+0.05%FS	0.03%+0.05%FS	0.03%+0.05%FS	0.03%+0.05%FS	0.03%+0.05%FS
CV Mode	Range	0.1-19.999V	0.1-150V	0.1-19.999V	0.1-150V	0.1-19.999V	0.1-500V	0.1-19.999V	0.1-150V
	solution	1mV	10mV	1mV	10mV	1mV	10mV	1mV	10mV
	Accuracy	0.03%+0.02%FS	0.03%+0.02%FS	0.03%+0.02%FS	0.03%+0.02%FS	0.03%+0.02%FS	0.03%+0.02%FS	0.03%+0.02%FS	0.03%+0.02%FS
CR Mode	Range	0.03 Ω-10KΩ	0.03 Ω-5KΩ	0.03 Ω-10KΩ	0.03 Ω-5KΩ	0.3Ω-10KΩ	0.3Ω-5KΩ	0.03 Ω-10KΩ	0.03 Ω-5KΩ
	Resolution	16 位	16 位	16 位	16 位	16 位	16 位	16 位	16 位
	Accuracy	0.1%+0.1%FS	0.1%+0.1%FS	0.1%+0.1%FS	0.1%+0.1%FS	0.1%+0.1%FS	0.1%+0.1%FS	0.1%+0.1%FS	0.1%+0.1%FS
CW Mode	Range	0-150W	0-150W	0-300W	0-300W	0-300W	0-300W	0-300W	0-300W
	Resolution	1mW	10mW	1mW	10mW	1mW	10mW	1mW	10mW
	Accuracy	0.1%+0.1%FS	0.1%+0.1%FS	0.1%+0.1%FS	0.1%+0.1%FS	0.1%+0.1%FS	0.1%+0.1%FS	0.1%+0.1%FS	0.1%+0.1%FS
V Measurement	Voltage	0-19.999V	0-150V	0-19.999V	0-150V	0-19.999V	0-500V	0-19.999V	0-150V
	Resolution	1mV	10mV	1mV	10 mV	1mV	10mV	1mV	10mV
	Accuracy	0.015%+0.03%FS	0.015%+0.03%FS	0.015%+0.03%FS	0.015%+0.03%FS	0.015%+0.03%FS	0.015%+0.05%FS	0.015%+0.03%FS	0.015%+0.03%FS
I Measurement	Current	0-3A	0-30A	0-3A	0-30A	0-3A	0-15A	0-6A	0-60A
	Resolution	0.01mA	0.1mA	0.01mA	0.1mA	0.01mA	0.1mA	0.01mA	0.1mA
	Accuracy	0.03%+0.05%FS	0.03%+0.05%FS	0.03%+0.05%FS	0.03%+0.05%FS	0.03%+0.05%FS	0.03%+0.05%FS	0.03%+0.05%FS	0.03%+0.05%FS
W Measurement	Watt	100W	150 W	100W	300W	100W	300W	100W	300W
	Resolution	1mW	10mW	1mW	10mW	1mW	10mW	1mW	10mW
	Accuracy	0.1%+0.1%FS	0.1%+0.1%FS	0.1%+0.1%FS	0.1%+0.1%FS	0.1%+0.1%FS	0.1%+0.1%FS	0.1%+0.1%FS	0.1%+0.1%FS

Battery Measruement Dynamic Measurement CCsoft-startupTime	Battery Input: 0.5-120V; Max. Measurement: Capacity=999/H; Resolution=0.1mA; Time Range=1S-16HS Transition List: 0-25k HZ; 2.5A/uS; T1&T2: 60uS -999S; Accuracy: ± 15% offset+10% FS 1mS; 2 mS; 5mS; 10mS; 20mS; 50mS; 100mS; 200mS Accuracy: ± 15% offset+10% FS

Short Circuit	Current(CC)	≒3.3A	≒33A	≒3.3A	≒33A	≒3.3A	≒18A	≒6.6A	66A
	Voltage(CV)	0V		0V		0V		0V	
	Resistance(CR)	≒28mΩ		≒28mΩ		≒200mΩ		≒20mΩ	
Temperature	Operating	0~40℃		0~40℃		0~40℃		0~40℃	
	Nonoperating	-10℃~70℃		-10℃~70℃		-10℃~70℃		-10℃~70℃	
Dimension	W*H*D(mm)	214*108*365							
Weight	Kg	3.5							

The following models can be optional.

Model	M9711	M9712	M9712B	M9712C	M9713	M9713B	M9714	M9714B	M9715	M9715B	M9716	M9716B
Power	150W	300W	300W	300W	600W	600W	1200W	1200W	1800W	1800W	2400W	2400W
Current	0-30A	0-30A	0-15A	0-60A	0-120A	0-30A	0-240A	0-60A	0-240A	0-120A	0-240A	0-120A
Voltage	0-150V	0-150V	0-500V	0-150V	0-150V	0-500V	0-150V	0-500V	0-150V	0-500V	0-150V	0-500V
Model	**M9717C**	**M9717**	**M9717B**	**M9718**	**M9718B**	**M9718D**	**M9836**	**M9836B**	**M9838B**	**M9839B**	**M9840B**	**M9840**
Power	3600W	3600W	3600W	6000W	6000W	6000W	20KW	20KW	50KW	100KW	200KW	200KW
Current	0-500A	0-240A	0-120A	0-240A	0-120A	0-240A	0-500A	0-240A	0-240A	0-240A	0-500A	0-1000A
Voltage	0-150V	0-150V	0-500V	0-150V	0-500V	0-500V	0-150V	0-500V	0-500V	0-500V	0-500V	0-150V

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