

M97series DC electronic load, as a new generation product of Maynuo Electronic 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 have a wide application in production line (cell phone charger, cell phone battery, electronic vehicle battery, switching power supplier, linear power supplier), research institutes, automotive electronics, aeronautics and astronautics, ships, solar cells, fuel cell, etc.



M9712

### Features:

- Six high speed operation modes: CC,CR,CV,CW,CC+CV,CR+CV
- Over current, over voltage, over power, over heat, polarity reversed protection;
- High-luminance VFD screen with two lines& four channels display;
- Intelligent 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: RS232/RS485/USB.

Model		M9712	
Input Rating	Power	300W	
	Current	0-30A	
	Voltage	0-150V	
CC Model	Range	0-3A	0-30A
	Resolution	0.1mA	1mA
	Accuracy	0.03%+0.05%FS	0.03%+0.05%FS
CV Model	Range	0.1-19.999V	0.1-150V
	Resolution	1mV	10mV
	Accuracy	0.03%+0.02%FS	0.03%+0.02%FS
CR Model (Voltage and current input value $\geq 10\%$ full measurement )	Range	0.03 $\Omega$ -10K	0.03 $\Omega$ -5K
	Resolution	16bit	16bit
	Accuracy	0.1%+0.1%FS	0.1%+0.1%FS
CW Model (Voltage and current input value $\geq 10\%$ full measurement )	Range	0-300W	0-300W
	Resolution	1mW	10mW
	Accuracy	0.1%+0.1%FS	0.1%+0.1%FS
V Measurement	Voltage	0-19.999V	0-150V
	Resolution	1mV	10mV
	Accuracy	0.015%+0.02%FS	0.015%+0.03%FS
I Measurement	Current	0-3A	0-30A
	Resolution	0.01mA	0.1mA
	Accuracy	0.03%+0.05%FS	0.03%+0.08%FS
W Measurement (Voltage and current input value $\geq 10\%$ full measurement )	Watt	100W	300W
	Resolution	1mW	10mW
	Accuracy	0.1%+0.1%FS	0.1%+0.1%FS
Battery Measurement Battery Input: 0.1-150V; Max. Measurement: Capacity=999AH; Resolution=0.1mA; Time Range=1S-16H			
Dynamic Measurement Transition List: 0-25kHz; 2.5A/uS; T1&T2:60uS-999S; Accuracy: $\pm 15\%$ offset+10% FS			
CC soft-startup Time 1 mS; 2 mS; 5mS; 10mS; 20 mS; 50 mS; 100 mS; 200 mS 500 mS; 1000 mS Accuracy: $\pm 15\%$ offset+10% FS			
Short Circuit	Current(CC)	$\approx 3.3A$	$\approx 33A$
	Voltage(CV)	0V	
	Resistance(CR)	$\approx 35m\Omega$	
Temperature	Operating	0~40°C	
	Nonoperating	-10°C~70°C	
Dimension	W*H*D(mm)	214*108*365	
Weight	Kg	3.5	

Model		M9712B	
Input Rating	Power	300W	
	Current	0-15A	
	Voltage	0-500V	
CC Model	Range	0-3A	0-15A
	Resolution	0.1mA	1mA
	Accuracy	0.03%+0.05%FS	0.03%+0.05%FS
CV Model	Range	0.1-19.999V	0.1-500V
	Resolution	1mV	10mV
	Accuracy	0.03%+0.02%FS	0.03%+0.02%FS
CR Model (Voltage and current input value ≥10% full measurement )	Range	0.3 Ω -10K	0.3 Ω -5K
	Resolution	16bit	16bit
	Accuracy	0.1%+0.1%FS	0.1%+0.1%FS
CW Model (Voltage and current input value ≥10% full measurement )	Range	0-300W	0-300W
	Resolution	1mW	10mW
	Accuracy	0.1%+0.1%FS	0.1%+0.1%FS
V Measurement	Voltage	0-19.999V	0-500V
	Resolution	1mV	10mV
	Accuracy	0.015%+0.03%FS	0.015%+0.05%FS
I Measurement	Current	0-3A	0-15A
	Resolution	0.01mA	0.1mA
	Accuracy	0.03%+0.05%FS	0.03%+0.08%FS
W Measurement (Voltage and current input value ≥10% full measurement )	Watt	100W	300W
	Resolution	1mW	10mW
	Accuracy	0.1%+0.1%FS	0.1%+0.1%FS
Battery Measurement Battery Input: 0.1-150V; Max. Measurement: Capacity=999AH; Resolution=0.1mA; Time Range=1S-16H			
Dynamic Measurement Transition List: 0-25kHz; 2.5A/uS; T1&T2:60uS-999S; Accuracy: ± 15% offset+10% FS			
CC soft-startup Time 1 mS; 2 mS; 5mS; 10mS; 20 mS; 50 mS; 100 mS; 200 mS 500 mS; 1000 mS Accuracy: ± 15% offset+10% FS			
Short Circuit	Current(CC)	≐ 3.3A	≐ 18A
	Voltage(CV)	0V	
	Resistance(CR)	≐ 300m Ω	
Temperature	Operating	0~40℃	
	Nonoperating	-10℃~70℃	
Dimension	W*H*D(mm)	214*108*365	
Weight	Kg	3.5	

Model		M9712C	
Input Rating	Power	300W	
	Current	0-60A	
	Voltage	0-150V	
CC Model	Range	0-6A	0-60A
	Resolution	0.1mA	1mA
	Accuracy	0.03%+0.05%FS	0.03%+0.05%FS
CV Model	Range	0.1-19.999V	0.1-150V
	Resolution	1mV	10mV
	Accuracy	0.03%+0.02%FS	0.03%+0.02%FS
CR Model (Voltage and current input value ≥10% full measurement )	Range	0.03 Ω -10K	0.03 Ω -5K
	Resolution	16bit	16bit
	Accuracy	0.1%+0.1%FS	0.1%+0.1%FS
CW Model (Voltage and current input value ≥10% full measurement )	Range	0-300W	0-300W
	Resolution	1mW	10mW
	Accuracy	0.1%+0.1%FS	0.1%+0.1%FS
V Measurement	Voltage	0-19.999V	0-150V
	Resolution	1mV	10mV
	Accuracy	0.015%+0.03%FS	0.015%+0.03%FS
I Measurement	Current	0-6A	0-60A
	Resolution	0.1mA	1mA
	Accuracy	0.03%+0.05%FS	0.03%+0.08%FS
W Measurement (Voltage and current input value ≥10% full measurement )	Watt	100W	300W
	Resolution	1mW	10mW
	Accuracy	0.1%+0.1%FS	0.1%+0.1%FS
Battery Measurement Battery Input: 0.1-150V; Max. Measurement: Capacity=999AH; Resolution=0.1mA; Time Range=1S-16H			
Dynamic Measurement Transition List: 0-25kHz; 2.5A/uS; T1&T2:60uS-999S; Accuracy: ± 15% offset+10% FS			
CC soft-startup Time 1 mS; 2 mS; 5mS; 10mS; 20 mS; 50 mS; 100 mS; 200 mS 500 mS; 1000 mS Accuracy: ± 15% offset+10% FS			
Short Circuit	Current(CC)	≐ 6.6A	66A
	Resistance(CR)	≐ 25m Ω	
	Voltage(CV)	0V	
Temperature	Operating	0~40℃	
	Nonoperating	-10℃~70℃	
Dimensions	W*H*D(mm)	214*108*365	
Weight	Kg	3.5	

Model		M9712B30	
Input Rating	Power	300W	
	Current	0-30A	
	Voltage	0-500V	
CC Model	Range	0-3A	0-30A
	Resolution	0.1mA	1mA
	Accuracy	0.03%+0.05%FS	0.03%+0.05%FS
CV Model	Range	0.1-19.999V	0.1-500V
	Resolution	1mV	10mV
	Accuracy	0.03%+0.02%FS	0.03%+0.05%FS
CR Model (Voltage and current input value ≥10% full measurement )	Range	0.3Ω -10K	0.3Ω -5K
	Resolution	16 bit	16 bit
	Accuracy	0.1%+0.1%FS	0.1%+0.1%FS
CW Model (Voltage and current input value ≥10% full measurement )	Range	0-300W	0-300W
	Resolution	1mW	10mW
	Accuracy	0.1%+0.1%FS	0.1%+0.1%FS
V Measurement	Voltage	0-19.999V	0-500V
	Resolution	1mV	10mV
	Accuracy	0.015%+0.03%FS	0.015%+0.05FS
I Measurement	Current	0-3A	0-30A
	Resolution	0.01mA	0.1mA
	Accuracy	0.03%+0.05%FS	0.03%+0.08%FS
W Measurement (Voltage and current input value ≥10% full measurement )	Watt	100W	300W
	Resolution	1mW	10mW
	Accuracy	0.1%+0.1%FS	0.1%+0.1%FS
Battery Measurement Battery Input: 0.1-150V; Max. Measurement: Capacity=999AH; Resolution=0.1mA; Time Range=1S-16H			
Dynamic Measurement Transition List: 0-25kHz; 2.5A/uS; T1&T2:60uS-999S; Accuracy: ± 15% offset+10% FS			
CC soft-startup Time 1 mS; 2 mS; 5mS; 10mS; 20 mS; 50 mS; 100 mS; 200 mS Accuracy: ± 15% offset+10% FS			
Short Circuit	Current(CC)	≐ 3.3A	≐ 18A
	Voltage(CV)	0V	
	Resistance(CR)	≐ 45mΩ	
Temperature	Operating	0~40℃	
	Nonoperating	-10℃~70℃	
Dimension	W*H*D(mm)	108*214*365	
Weight	Kg	3.5	