

# PROGRAMMABLE DC ELECTRONICS LOAD

## MODEL- M9712 (0-30A/0-150V/300W)



### Features:

- Six high speed operation modes: CC,CR,CV,CW,CC+CV,CR+CV
- Over current, over voltage, over power, over heating and polarity reversal protection
- High-luminance vacuum fluorescent display (VFD) screen with two line, four channel display
- Intelligent fan cooling with auto fan ON/OFF according to the temperature
- Soft-start time setting, activating the power supply in accordance with the set voltage value
- Battery test and short-circuit test functions
- Capable of rising edge and falling edge dynamic testing
- Support external trigger on either input or output
- External current waveform monitor terminal output terminal
- Supports remote voltage compensation and multi-data storage
- Power-on-self-test, software calibration and standard rack mountable
- Edits arbitrary waveforms in list function
- Available with RS232/RS485/USB serial interfaces.

### Application:

M97XX series have wide application from production lines for cell phone chargers, cell phone batteries, electronic vehicle batteries, switching power supplies, linear power supplies, and LED drivers, to research institute, automotive electronic, aeronautic and astronautic, maritime, solar cell and fuel cell etc. test and measurement applications.

## Specifications:

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

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