

PROGRAMMABLE DC ELECTRONICS LOAD

MODEL- M9712B30 (0-30A/0-500V/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 system will automatically activate based on changing ambient temperatures
- 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
- Supporting external triggeron 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
- LED mode for LED power driver test, steady reading, compatable with simulating the capacitances sensitive driver
- Edits arbitrary waveforms in list function
- Available with RS232/RS485/USB serial interfaces.

Application:

M98XX 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 celland fuel cell etc.test and measurement applications.

Specifications:

Input Rating	Power	300W	
	Current	0-30A	
	Voltage	0-500V	
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	0.1-500V
	Resolution	1mV	10mV
	Accuracy	0.03%+0.02%FS	0.03%+0.05%FS
CR Mode (Voltage and current input value $\geq 10\%$ full measurement)	Range	0.3-10K	0.3-5K O
	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	0-500V
	Resolution	1mV	10mV
	Accuracy	0.015%+0.03%FS	0.015%+0.05%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 -16 Hrs		
Dynamic Test	Transition List: 0-25kHz; 2.5A/uS; T1&T2:60uS-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)	$\approx 3.3A$	$\approx 18A$
	Voltage(CV)	0V	
	Resistance(CR)	$\approx 300m\Omega$	
Temperature	Operating	0~40oC	
	Nonoperating	-10oC~70oC	
Dimension	W*H*D(mm)	214*108*365	
Weight	Kg	3.5	