



Maynuo
Electronics

Maynuo Electronics is dedicated to providing production lines and laboratories with the right test instruments



M97

Series Programmable DC Electronic Load

The M97 series DC electronic load is a new generation product from Maynuo Electronic Co. Ltd. The loads are designed with high-performance components and offer high speed with a resolution of 0.1 mV and 0.01 mA (the basic accuracy is 0.03%, the basic current rise speed is 2.5 A/ μ s). The M97 series has a wide application range in production line (cell phone charger, cell phone battery, electric vehicle battery, switching power supplies, linear power supplies etc.), research institutes, automotive electronics, aeronautical and astronautical, ships, solar cells, fuel cells, and so on. The M97 series offers users with its novel and high quality design 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
- 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 for dynamic testing with rising edge/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 | |
|---------------|------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| Power | | 150W | | 300W | | 300W | | 300W | |
| Input Rating | 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 |
| | Resolution | 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 | 10mV | 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%+0.08%FS | 0.03%+0.05%FS | 0.03%+0.08%FS | 0.03%+0.05%FS | 0.03%+0.08%FS | 0.03%+0.05%FS | 0.03%+0.08%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 Measurement
Dynamic Measurement
CCsoft-startupTime

Battery Input: 0.1-150V; Max. Measurement: Capacity=999H; 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; 500mS; 1000mS; Accuracy: ± 15% offset+10% FS

| | ≈3.3A | ≈33A | ≈3.3A | ≈33A | ≈3.3A | ≈18A | ≈6.6A | 66A |
|---------------|----------|------|----------|------|----------|------|----------|-----|
| Short Circuit | 0V | | 0V | | 0V | | 0V | |
| | ≈55mΩ | | ≈28mΩ | | ≈280mΩ | | ≈25mΩ | |
| Temperature | 0~40℃ | | 0~40℃ | | 0~40℃ | | 0~40℃ | |
| | -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 | M9710 | M9711 | M9712 | M9712B | M9712C | M9712B30 | M9713 | M9713B | M9714 | M9714B | M9715 | M9715B |
| Power | 150W | 150W | 300W | 300W | 300W | 300W | 600W | 600W | 1200W | 1200W | 1800W | 1800W |
| Current | 0-30A | 0-30A | 0-30A | 0-15A | 0-60A | 0-30A | 0-120A | 0-30A | 0-240A | 0-60A | 0-240A | 0-120A |
| Voltage | 0-150V | 0-150V | 0-150V | 0-500V | 0-150V | 0-500V | 0-150V | 0-500V | 0-150V | 0-500V | 0-150V | 0-500V |
| Model | M9716 | M9716B | M9716E | M9717 | M9717B | M9717C | M9718 | M9718B | M9718D | M9718E | M9718F | M9834 |
| Power | 2400W | 2400W | 3000W | 3600W | 3600W | 3600W | 6000W | 6000W | 6000W | 6000W | 6000W | 10KW |
| Current | 0-240A | 0-120A | 0-480A | 0-240A | 0-120A | 0-480A | 0-240A | 0-120A | 0-240A | 0-120A | 0-480A | 0-500A |
| Voltage | 0-150V | 0-500V | 0-150V | 0-150V | 0-500V | 0-150V | 0-150V | 0-500V | 0-500V | 0-600V | 0-150V | 0-150V |
| Model | M9835 | M9835B | M9836 | M9836B | M9837 | M9837B | M9838 | M9838B | M9839 | M9839B | M9840 | M9840B |
| Power | 15KW | 15KW | 20KW | 20KW | 35KW | 35KW | 50KW | 50KW | 100KW | 100KW | 200KW | 200KW |
| Current | 0-500A | 0-240A | 0-500A | 0-240A | 0-500A | 0-240A | 0-500A | 0-240A | 0-500A | 0-240A | 0-1500A | 0-500A |
| Voltage | 0-150V | 0-500V | 0-150V | 0-500V | 0-150V | 0-500V | 0-150V | 0-500V | 0-150V | 0-500V | 0-150V | 0-500V |