

Economical Programmable DC Electronic Load Series



CH8710B&CH8710C



CH9710B&CH9710C

Product Detail

Product Introduction:

The economic program-controlled DC electronic load series can measure up to 360V, which can be widely used in non isolated LED driving power supply, power transformer, charger, switching power supply, battery and other industries, such as online testing and laboratory testing fields.

The display of the instrument is intuitive, comprehensive and easy to operate. Its perfect functions of constant voltage, constant current, constant power, constant resistance, remote measurement, short circuit test, battery test, dynamic test and upper computer software control enable you to obtain the multi-purpose benefits and convenience of one computer.

Main features:

- Maximum 360V test voltage to meet the test requirements of non-isolated driving power supply
- Fixed Current, Fixed Voltage, Fixed Resistance, Fixed Power Mode
- Dynamic measurement mode
- Battery Testing Mode
- List Automated Test Mode
- Standard RS232C interface
- Remote Testing Function
- Over Voltage, Over Current, Over Power, Over Temperature Protection

Major Technical Indicators:

| Model | | CH8710B | CH8710C | CH9710B | CH9710C |
|---------------|---------------|-----------------------|-----------------|------------------------|-----------------|
| Rated value | Input voltage | 0~360V | | | |
| | Input current | 1mA~30A | | 0.1mA~30A | |
| | Input power | 150W | 300W | 150W | 300W |
| Display mode | | LED with backlight | | High brightness VFD | |
| | Range | Accuracy | Resolving Power | Accuracy | Resolving Power |
| Load accuracy | 0-36V | $\pm(0.1\%+0.03\%FS)$ | 1mV | $\pm(0.05\%+0.03\%FS)$ | 1mV |
| | 0-360V | $\pm(0.1\%+0.03\%FS)$ | 10mV | $\pm(0.05\%+0.03\%FS)$ | 10mV |
| | 0-3A | $\pm(0.1\%+0.1\%FS)$ | 1mA | $\pm(0.05\%+0.05\%FS)$ | 0.1mA |

| | | | | | |
|-----------------------|---|-----------------------|----------------|---|----------------|
| | 0-30A | $\pm(0.2\%+0.3\%FS)$ | 10mA | $\pm(0.05\%+0.05\%FS)$ | 1mA |
| Fixed Voltage Mode | 1.5V-36V | $\pm(0.1\%+0.03\%FS)$ | 1mV | $\pm(0.05\%+0.03\%FS)$ | 1mV |
| | 1.5V-360V | $\pm(0.1\%+0.03\%FS)$ | 10mV | $\pm(0.05\%+0.03\%FS)$ | 10mV |
| Fixed Current mode | 0-3A | $\pm(0.1\%+0.1\%FS)$ | 1mA | $\pm(0.05\%+0.03\%FS)$ | 0.1mA |
| | 0-30A | $\pm(0.2\%+0.3\%FS)$ | 10mA | $\pm(0.05\%+0.03\%FS)$ | 1mA |
| Fixed Resistance mode | 0.1 Ω -10 Ω | $\pm(1\%+0.3\%FS)$ | 0.001 Ω | $\pm(0.2\%+0.2\%FS)$ | 0.001 Ω |
| | 10 Ω -99 Ω | $\pm(1\%+0.3\%FS)$ | 0.01 Ω | $\pm(0.1\%+0.1\%FS)$ | 0.01 Ω |
| | 100 Ω -999 Ω | $\pm(1\%+0.3\%FS)$ | 0.1 Ω | $\pm(0.1\%+0.1\%FS)$ | 0.1 Ω |
| | 1K Ω -4K Ω | $\pm(1\%+0.8\%FS)$ | 1 Ω | $\pm(1\%+1\%FS)$ | 1 Ω |
| Fixed Power mode | 0-10W | $\pm(1\%+0.1\%FS)$ | 1mW | $\pm(0.1\%+0.1\%FS)$ | 1mW |
| | 10-100W | $\pm(1\%+0.1\%FS)$ | 10mW | $\pm(0.1\%+0.1\%FS)$ | 10mW |
| | 100-300W | $\pm(1\%+0.1\%FS)$ | 0.1 W | $\pm(0.1\%+0.1\%FS)$ | 0.1 W |
| Current measurements | 0-3A | $\pm(0.1\%+0.1\%FS)$ | 1mA | $\pm(0.05\%+0.05\%FS)$ | 0.1mA |
| | 0-15A/30A | $\pm(0.2\%+0.3\%FS)$ | 10mA | $\pm(0.05\%+0.05\%FS)$ | 1mA |
| Voltage measurements | 1.5V-36V | $\pm(0.1\%+0.03\%FS)$ | 1mV | $\pm(0.05\%+0.03\%FS)$ | 0.1mV |
| | 1.5V-360V | $\pm(0.1\%+0.03\%FS)$ | 10mV | $\pm(0.05\%+0.03\%FS)$ | 1mV |
| Battery Test Function | Input voltage:0.8-360V Maximum capacity:999A/H | | | Input voltage:0.8-360V Maximum capacity:999A/H | |

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|-------------------|---|-------------|--|-------------|-------------|
| | Resolving Power:10mA Discharge time:1~60000sec | | Resolving Power:0.1mA Discharge time:1~60000sec | | |
| Dynamic Test mode | T1&T2(A or B Value Test Time): 1mS-999S Error<3% + 1mS | | T1&T2(A or B Value Test Time): 0.1mS-999S Error<2.5% + 0.1mS | | |
| Protection scope | >Rated condition 5% | | | | |
| Input impedance | $\geq 200K\Omega$ | | | | |
| Outline size | W*H*D 225mm*100mm*330mm | | W*H*D 215mm*88mm*335mm | | |
| Weight | | About 5.5Kg | About 6.5Kg | About 5.5Kg | About 6.5Kg |