



### IT8513C+ 120V/120A/600W

IT8500+ series is a single-channel programmable electronic load. With power ranges from 150W to 1500W. The user can perform online voltage measurements and adjustments or simulate short circuit test using the simple keypad on the front panel. It also offers a full-featured battery mode for discharging test. IT8500+ series DC loads are a versatile instrument for static and dynamic testing of power supplies, batteries, DC-DC converters, battery chargers, provides user the best testing solution.

#### ■ Feature

- CC/CV/CR/CW operating modes
- high resolution of 0.1 mV and 0.1 mA
- Up to 40KHZ measurement speed of voltage and current
- Adjustable slew rate in CC mode
- Automatic test function
- 100 memory areas to save/recall setting parameters
- OVP/OCP/OPP/OTP and reverse voltage protection
- Bright VFD display
- Transient mode up to 10 kHz
- List mode? minimum 50us step width with 84 user programmable steps
- Professional battery mode
- Short mode
- OCP and OPP mode to test the over current and over power points

#### ■ Specifications

|                 |            |                            |                            |
|-----------------|------------|----------------------------|----------------------------|
| Input Rating    | -          | 600W / 120V / 120A         |                            |
| CC-MODE         | Range      | 0-12A                      | 0-120A                     |
|                 | Resolution | 1mA                        | 10mA                       |
|                 | Accuracy   | $\pm(0.05\%+0.05\%FS)$     | $\pm(0.05\%+0.05\%FS)$     |
| CR-MODE         | Range      | 0.05 $\Omega$ ~10 $\Omega$ | 10 $\Omega$ ~7.5K $\Omega$ |
|                 | Resolution |                            | 16bit                      |
|                 | Accuracy   | 0.01%+0.08S                | 0.01%+0.0008S              |
| CV-MODE         | Range      | 0-18V                      | 0-120V                     |
|                 | Resolution | 1mV                        | 10mV                       |
|                 | Accuracy   | $\pm(0.05\%+0.02\%FS)$     | $\pm(0.05\%+0.025\%FS)$    |
| CW-MODE         | Range      | 0-600W                     |                            |
|                 | Resolution | 10mW                       |                            |
|                 | Accuracy   | 0.2%+0.2%FS                |                            |
| V - Measurement | Range      | 0-18V                      | 0-120V                     |
|                 | Resolution | 0.1mV                      | 1mV                        |
|                 | Accuracy   | $\pm(0.025\%+0.025\%FS)$   | $\pm(0.025\%+0.025\%FS)$   |
| A - Measurement | Range      | 0-12A                      | 0-120A                     |
|                 | Resolution | 1mA                        | 10mA                       |
|                 | Accuracy   | $\pm(0.05\%+0.05\%FS)$     |                            |
| Short Circuit   | Current    | $\approx 13/12A$           | $\approx 130/120A$         |
|                 | Resistance | $\approx 15m\Omega$        |                            |
| Temperature     | Operating  | 0-40°C                     |                            |
| Dimension(mm)   | W * H * D  | 214.5 * 88.2 * 453.5       |                            |

#### ■ Standard Accessories

- Power cord
- Test report
- User manual

#### ■ Optional Accessories

- Rack mount kit IT-E151
- IT-E121 (RS232 cable)
- IT-E122 (USB cable)
- IT-E123 (RS485 module)