


**IT8731 80V/40A/200W;**

The IT8700 series is a multi-channel programmable DC electronic load system. It is configured by installing user-selectable modules into the mainframe. Support up to a total of 16 channels. With programming and remote control capabilities via built-in USB, RS232, LAN or GPIB interface. It can be used in one of five different operation modes: CC/CR/CV/CW/CZ.

IT8700 series can provide multiple solutions according to the requirements of your design and is suitable for testing a wide range of power sources from multi-output DC power supplies to batteries, fuel cells and photovoltaic arrays.

**Feature**

- CC/CV/CR/CW/CZ operating modes
- Bright VFD display for both mainframe and modules
- Supports up to 16 channels with mainframe extension
- 16-bit voltage and current metering providing high resolution of 0.1 mV and 0.01 mA
- List mode (sequence mode) ? minimum 20  $\mu$ s step width with 84 user programmable steps
- Automatic test function
- Standard LAN, GPIB, USB, and RS-232 interface with SCPI protocol support
- Removable modules for easy system flexibility
- Power range up to 2400 W (4800 W with mainframe extension)
- Synchronous load on/off function
- Transient mode up to 25 kHz
- Adjustable slew rate in CC mode
- 10 memory areas to save/recall setting parameters
- OVP/OCP/OPP/OTP and reverse voltage protection

**Specifications**

|                 |            |                            |                            |
|-----------------|------------|----------------------------|----------------------------|
| Input Rating    | -          | 200W / 80V / 40A           |                            |
| CC-MODE         | Range      | 0-4A                       | 0-40A                      |
|                 | Resolution | 0.1mA                      | 1mA                        |
|                 | 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                      | 0-80V                      |
|                 | Resolution | 1mV                        | 10mV                       |
|                 | Accuracy   | $\pm(0.05\%+0.02\%FS)$     | $\pm(0.05\%+0.025\%FS)$    |
| CW-MODE         | Range      | 0-200W                     |                            |
|                 | Resolution | 10mW                       |                            |
|                 | Accuracy   | 0.2%+0.2%FS                |                            |
| V - Measurement | Range      | 0-18V                      | 0-80V                      |
|                 | Resolution | 0.1mV                      | 1mV                        |
|                 | Accuracy   | $\pm(0.025\%+0.025\%FS)$   | $\pm(0.025\%+0.025\%FS)$   |
| A - Measurement | Range      | 0-4A                       | 0-40A                      |
|                 | Resolution | 0.1mA                      | 1mA                        |
|                 | Accuracy   | $\pm(0.05\%+0.05\%FS)$     |                            |
| Short Circuit   | Current    | $\approx 4.4/4A$           | $\approx 44/40A$           |
|                 | Resistance | $\approx 25m\Omega$        |                            |
| Temperature     | Operating  | 0-40 $^{\circ}C$           |                            |
| Dimension(mm)   | W * H * D  | 82 * 183 * 573             |                            |

**Standard Accessories**

- Power cord
- Test report
- User's manual
- USB cable

**Optional Accessories**

- Rack mount kit IT-E153