

# Power Electric Tester

## III. TH6300 Series DC Power Supply

### Features

- 480x272 pixels, 24-bit color, 4.3-inch color TFT LCD screen for setting test conditions and display of testing results, etc.
- Digital keyboard and knob operation, simple and fast
- High accuracy, high resolution, low ripple and low noise
- Support shutdown data saving and boot data loading
- Support voltage test function
- Support data saving and callback
- List setting and step output
- Intelligent fan control to save energy and reduce noise
- Software control and detection via computer
- Interface: RS232, USB, GPIB (optional)

### Application

- R & D and design verification common test
- Production line table routine testing and maintenance
- Automated device integration testing
- Solar photovoltaic simulation test
- New power car simulation test
- Teaching laboratory



| RS232    | USB HOST | USB DEVICE | GPIB   |
|----------|----------|------------|--------|
| standard | standard | standard   | option |

### TH6303 Series

Rack mount (mm): 215(W) x 88(H) x 412(D)  
Dimension (mm): 235(W) x 111(H) x 440(D)  
Net weight: 8.1kg

### Specifications

| Model                               |                                                                                          | TH6301                      | TH6302              | TH6303             | TH6304              | TH6312              | TH6313              | TH6314              | TH6323              | TH6324              |
|-------------------------------------|------------------------------------------------------------------------------------------|-----------------------------|---------------------|--------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| Rated output                        | Voltage                                                                                  | 20V                         | 30V                 | 60V                | 120V                | 30V                 | 60V                 | 120V                | 60V                 | 120V                |
|                                     | Current                                                                                  | 30A                         | 20A                 | 10A                | 5A                  | 30A                 | 15A                 | 6A                  | 25A                 | 10A                 |
|                                     | Power                                                                                    | 200W                        | 200W                | 200W               | 200W                | 360W                | 360W                | 360W                | 600W                | 600W                |
| Load regulations≤                   | Voltage                                                                                  | 0.01%+20mV                  | 0.01%+20mV          | ≤0.01%+5mV         | ≤0.01%+5mV          | 0.01%+20mV          | ≤0.01%+8mV          | ≤0.01%+8mV          | ≤0.01%+15mV         | 0.01%+15mV          |
|                                     | Current                                                                                  | 0.01%+20mA                  | 0.01%+15mA          | ≤0.01%+4mA         | ≤0.01%+4mA          | 0.01%+20mA          | ≤0.01%+6mA          | ≤0.01%+6mA          | ≤0.01%+10mA         | 0.01%+10mA          |
| Power regulations≤                  | Voltage                                                                                  | 0.01%+20mV                  | 0.01%+20mV          | ≤0.01%+5mV         | ≤0.01%+5mV          | 0.01%+20mV          | ≤0.01%+8mV          | ≤0.01%+8mV          | ≤0.01%+15mV         | 0.01%+15mV          |
|                                     | Current                                                                                  | 0.01%+20mA                  | 0.01%+15mA          | ≤0.01%+4mA         | ≤0.01%+4mA          | 0.01%+20mA          | ≤0.01%+6mA          | ≤0.01%+6mA          | ≤0.01%+10mA         | 0.01%+10mA          |
| Set value resolution                | Voltage                                                                                  | 1mV( < 100V), 10mV( > 100V) |                     |                    |                     |                     |                     |                     |                     |                     |
|                                     | Current                                                                                  | 0.1mA( < 10A), 1mA( > 10A)  |                     |                    |                     |                     |                     |                     |                     |                     |
| Read-back resolution                | Voltage                                                                                  | 1mV( < 100V), 10mV( > 100V) |                     |                    |                     |                     |                     |                     |                     |                     |
|                                     | Current                                                                                  | 0.1mA( < 10A), 1mA( > 10A)  |                     |                    |                     |                     |                     |                     |                     |                     |
| Year set accuracy (25°C±5°C)≤       | Voltage                                                                                  | 0.05%+10mV                  | 0.05%+10mV          | 0.05%+10mV         | 0.05%+15mV          | 0.05%+10mV          | 0.05%+10mV          | 0.03%+15mV          | 0.05%+10mV          | 0.05%+15mV          |
|                                     | Current                                                                                  | 0.1%+30mA                   | 0.1%+20mA           | 0.1%+10mA          | 0.1%+20mA           | 0.1%+30mA           | 0.1%+15mA           | 0.1%+20mA           | 0.1%+25mA           | 0.1%+25mA           |
| Year read-back accuracy (25°C±5°C)≤ | Voltage                                                                                  | 0.05%+10mV                  | 0.05%+10mV          | 0.05%+10mV         | 0.05%+15mV          | 0.05%+10mV          | 0.05%+10mV          | 0.03%+15mV          | 0.05%+10mV          | 0.05%+15mV          |
|                                     | Current                                                                                  | 0.1%+30mA                   | 0.1%+20mA           | 0.1%+10mA          | 0.1%+20mA           | 0.1%+30mA           | 0.1%+15mA           | 0.1%+20mA           | 0.1%+25mA           | 0.1%+25mA           |
| Ripple and Noise (20Hz~20MHz)≤      | Differential mode voltage                                                                | 15mVpp                      | 15mVpp              | 15mVp-p            | 20mVp-p             | 15mVpp              | 15mVp-p             | 20mVpp              | 20mVp-p             | 25mVp-p             |
|                                     | Differential mode current                                                                | 10mA <sub>rms</sub>         | 10mA <sub>rms</sub> | 8mA <sub>rms</sub> | 10mA <sub>rms</sub> | 12mA <sub>rms</sub> | 10mA <sub>rms</sub> | 12mA <sub>rms</sub> | 13mA <sub>rms</sub> | 15mA <sub>rms</sub> |
| Rise times≤                         | 10%-90%                                                                                  | 100ms                       | 100ms               | 150ms              | 150ms               | 100ms               | 150ms               | 150ms               | 150ms               | 150ms               |
| Fall times≤                         | 90%-10%                                                                                  | 2s                          | 2s                  | 2s                 | 3.5s                | 2s                  | 2s                  | 3.5s                | 2s                  | 3.5s                |
| Memory                              | 10 sets of trigger output, 100 steps per group, 100 groups of set memory                 |                             |                     |                    |                     |                     |                     |                     |                     |                     |
| Output                              | Support front and rear panel output, the maximum output current of front terminal is 10A |                             |                     |                    |                     |                     |                     |                     |                     |                     |

### Standard Accessories

YT3008 Test Cable