

# 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)



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

### 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

### TH6300 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                                                                | 10mArms                     | 10mArms    | 8mArms     | 10mArms    | 12mArms    | 10mArms    | 12mArms    | 13mArms     | 15mArms    |
| 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       |
| DVM                                 | Accuracy                                                                                 | 0.05%+10mV                  | 0.05%+10mV | 0.03%+5mV  | 0.04%+30mV | 0.05%+10mV | 0.03%+5mV  | 0.05%+15mV | 0.03%+5mV   | 0.03%+20mV |
|                                     | resolution                                                                               | 1mV                         |            |            |            |            |            |            |             |            |
|                                     | Voltage range                                                                            | 20V                         | 30V        | 60V        | 120V       | 30V        | 60V        | 120V       | 60V         | 120V       |
| 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 |                             |            |            |            |            |            |            |             |            |