

# Power Electric Tester

## III. TH6400 Series DC Power Supply

### Features

- Fresh and simple system settings with Chinese and English operation interfaces
- High resolution: 24-bit color 4.3-inch TFTLCD, resolution: 480 x 272
- Linear design and triple channel output
- High precision and high stability, low ripple and low noise
- 1/2 2U super mini size and output and sampling terminal on the front and rear panel
- Programmable output of voltage and current
- Timing output: time (0.1-99999.9s)
- Three-channel independent adjustment
- Simultaneously display of voltage, current, power and timing output time for three-channel
- Support series, parallel or synchronous output between channels
- Use rotary knob and numeric keyboard to set the voltage, current and output time
- Remote measurement function, compensation for line voltage drop
- Output control switch
- Fully isolated circuit and support positive and negative reverse connection
- Copy screen function
- Over voltage protection
- Intelligent temperature control fan
- Support standard SCPI communication protocol
- Upgrade instrument firmware via USB flash
- Software monitoring via computer



RS232	USB HOST	USB DEVICE	GPIB
standard	standard	standard	option

(TH6402A only USB HOST )

### TH6402

Rack mount (mm): 215(W) x 88(H) x 457(D)  
 Dimension (mm): 235(W) x 105(H) x 487(D)  
 Net weight: 13kg

### 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

### Specifications

Model		TH6402A			TH6402			TH6412			TH6413			
	Channel/Range	Range1	Range2	Range3	Range1	Range2	Range3	Range1	Range2	Range3	Range1	Range2	Range3	
Rated output (0°C-40°C)	Voltage	0-30V			0-30V			0-30V			0-60V			
	Current	0-3A			0-3A			0-5A			0-3A			
	Power	90W			90W			30W			180W			
Load regulation ± (% Output + Bias)	Voltage	≤0.01% + 3 mV			≤0.01% + 3 mV									
	Current	≤0.1% + 3 mA			≤0.01% + 3 mA									
Power regulation ± (% Output + Bias)	Voltage	≤0.01% + 3 mV			≤0.01% + 3 mV									
	Current	≤0.1% + 3 mA			≤0.01% + 3 mA									
Programming resolution	Voltage	10mV			1mV									
	Current	1mA			0.1mA									
Read-back value resolution	Voltage	10mV			1mV									
	Current	1mA			0.1mA									
Year accuracy (25°C ± 5°C) ± (% Reading + Bias)	Programming	Voltage	≤0.05% + 20 mV			≤0.03% + 10 mV						≤0.1%+5mA		≤0.1%+8mA
		Current	≤0.2%+5mA			≤0.1%+5mA			≤0.1%+8mA			≤0.1%+5mA		≤0.1%+8mA
	Read-back	Voltage	≤0.05% + 20 mV			≤0.03% + 10 mV						≤0.1%+5mA		≤0.1%+8mA
		Current	≤0.2%+5mA			≤0.1%+5mA			≤0.1%+8mA			≤0.1%+5mA		≤0.1%+8mA
Ripple and Noise (20Hz-20MHz)	Normal mode voltage	≤1mVrms/ 3mVp-p						≤1mVrms / 4mVp-p						
	Normal mode current	≤3mArms						≤5mArms			≤4mArms		≤5mArms	
	Common mode current	-----												
Series and parallel set value accuracy	Voltage	≤0.02% + 5 mV									≤0.02% + 10mV			
	Current	≤0.1% + 20mA						≤0.1% + 30mA						
Timer	0.1 ~ 99999.9 seconds													
Memory	40 groups of settings files / channels													

### Standard Accessories

- YT3007 Test Cable
- YT3008 Test Cable