

Power Electric Tester

III. TH8400 Series Programmable DC Electronic Load

Features

- High resolution:1mV/0.1mA
- Up to 25kHz dynamic frequency
- Up to 500kHz sampling speed
- Low ripple and low noise
- Voltage/current ripple, peak, peak-valley measurement
- Voltage/current waveform display
- 11 kinds of operation and measurement functions
- 4.3-inch 24-color 480X272 TFT LCD screen, Chinese and English interface
- Numeric keyboard and knob operation
- Screen copy function
- Remote compensation function
- Intelligent fan control
- Protection mode: over voltage, over current, over power
- Support U disk file storage and loading, program upgrade
- Software control and detection through computer
- Equipped with HANDLER interface for automatic matching
- SCPI command protocol



RS232	USB HOST	USB DEVICE	I-MONITOR
standard	standard	standard	standard

Shelf dimension(mm):215(W)×88(H)×390(D)

Exterior dimension(mm):236(W)×111(H)×454(D)

Weight:3kg(TH8401/TH8411), 4.8kg(TH8402A/TH8402/TH8412)

Application

- Power supply
Chargers, switching power supplies, communication power supplies, LED drivers, mobile phone batteries, power banks, etc.
- New energy
Solar cells, new power cars, electric bicycles
- Electronic power components
Fuse/connector/relay/sensor
- Automation equipment integration test

Specifications

Model		TH8401		TH8402A		TH8402		TH8403		TH8404		TH8405		TH8411		TH8412	
Rated value	Power	175W		350W		350W		1000W		1500W		2000W		175W		350W	
	Voltage	0~15V	0~150V	0~15V	0~150V	0~15V	0~150V	0~15V	0~150V	0~15V	0~150V	0~15V	0~150V	0~50V	0~500V	0~50V	0~500V
	Current	0~3A	0~30A	0~3A	0~30A	0~6A	0~60A	0~12A	0~120A	0~18A	0~180A	0~24A	0~240A	0~1.5A	0~15A	0~3A	0~30A
	Minimum operating voltage	1.5V@30A		1.2V@30A		1.5V@60A		1.5V@120A		1.5V@180A		1.5V@240A		3V@15A		3V@30A	
	Minimum rise time	20μS															
CV mode	Range	0~15V	0~150V	0~15V	0~150V	0~15V	0~150V	0~15V	0~150V	0~15V	0~150V	0~15V	0~150V	0~50V	0~500V	0~50V	0~500V
	Resolution	1mV	10mV	1mV	10mV	1mV	10mV	1mV	10mV	1mV	10mV	1mV	10mV	1mV	10mV	1mV	10mV
	Accuracy	0.05%+0.05%FS															
CC mode	Range	0~3A	0~30A	0~3A	0~30A	0~6A	0~60A	0~12A	0~120A	0~18A	0~180A	0~24A	0~240A	0~1.5A	0~15A	0~3A	0~30A
	Resolution	0.1mA	1mA	0.1mA	1mA	0.1mA	1mA	0.1mA	1mA	0.1mA	1mA	0.1mA	1mA	0.1mA	1mA	0.1mA	1mA
	Accuracy	0.05%+0.05%FS															
CR mode	Range	0.05Ω~50kΩ		0.05Ω~50kΩ		0.05Ω~25kΩ		0.02Ω~50kΩ		0.02Ω~50kΩ		0.01Ω~25kΩ		0.2Ω~50kΩ		0.1Ω~50kΩ	
	Resolution	0.05Ω						0.05Ω						0.1Ω			
	Accuracy	1%															
CP mode	Range	0~175W		0~350W		0~350W		0~1000W		0~1500w		0~2000w		0~175W		0~350w	
	Resolution	10mW		10mW		10mW		10mW		10mW		10mW		10mW		10mW	
	Accuracy	0.5%+0.1%FS															
Dynamic mode	Range	20 μs ~ 60S															
	Resolution	2 μs															
	Accuracy	2μS+100ppm															
	Rise rate	0.6A/ms~1.5A/μS		0.6A/ms~1.5A/μS		1.2A/ms~3A/μS		2.4A/ms~6A/μS		3.6A/ms~9A/μS		4.8A/ms~12A/μS		0.3A/ms~0.75A/μs		0.6A/ms~1.5A/μs	
voltage measurement	Range	0~15V	0~150V	0~15V	0~150V	0~15V	0~150V	0~15V	0~150V	0~15V	0~150V	0~15V	0~150V	0~50V	0~500V	0~50V	0~500V
	Resolution	1mV	10mV	1mV	10mV	1mV	10mV	1mV	10mV	1mV	10mV	1mV	10mV	1mV	10mV	1mV	10mV
	Accuracy	0.08%+0.05%FS															
current measurement	Range	0~3A	0~30A	0~3A	0~30A	0~6A	0~60A	0~12A	0~120A	0~18A	0~180A	0~24A	0~240A	0~1.5A	0~15A	0~3A	0~30A
	Resolution	0.1mA	1mA	0.1mA	1mA	0.1mA	1mA	0.1mA	1mA	0.1mA	1mA	0.1mA	1mA	0.1mA	1mA	0.1mA	1mA
	Accuracy	0.08%+0.05%FS															
ripple	Range	0~15V	0~150V	0~15V	150V	0~15V	150V	0~15V	0~150V	0~15V	0~150V	0~15V	0~150V	0~50V	0~500V	0~50V	0~500V
	Bandwidth	250kHz															
	Accuracy	0.1%															
Protection function		Over voltage protection (OVP) Over current protection (OCP) Over power protection (OPP)															
Storage		Internal: 40 groups															
Specification																	
Volume (mm) (W*H*D)		215×88×390		Shelf dimension(mm): 215×88×390 Exterior dimension(mm): 236×111×454				430mmx88mmx529mm				Shelf dimension(mm): 215×88×390 Exterior dimension(mm): 236×111×454					
Weight		3kg		4.8kg		4.8kg		13kg		15.5kg		18kg		3kg		4.8kg	
Power		Supply voltage: 220V(1±10%), Supply frequency: 50Hz/60Hz(1±5%), Power consumption: <50VA															
Temperature and humidity		0℃~40℃, humidity: < 90%RH															