

Programmable DC Electronic Load

C. TH8300 Series Programmable DC Electronic Load

NEW

Features

- High resolution: 0.1mV/10μA
- Up to 50kHz dynamic frequency
- Up to 500kHz sampling speed
- 12 advanced test functions
- Modular design, support each module to operate independently
- One single machine can support up to five modules in parallel and support up to ten channels
- The maximum power of the whole machine is 2000W, and the online maximum current is 400A
- The maximum power of the module is 400W, the maximum current is 80A and the maximum voltage is 600V
- Connect via CAN interface, support up to four complete machines online
- 24-bit color 2.8-inch color LCD display
- Chinese and English operation interface
- Smart fan system
- Support power-on hold function
- Support timing function
- Electrical isolation, external input and output
- Support over current protection (OCP), over voltage protection (OVP), over power protection (OPP), over temperature protection (OTP), reverse polarity protection (REV), low voltage protection (LVP)



Standard RS232 USB HOST USB DEVICE GPIB

SYSTEM I/O LAN CAN

Dimension(mm): 477mm(W)x177mm(H)x590mm(D) Weight: 15kg
Dimension(mm): 142mm(W)x85.5mm(H)x550mm(D) Weight: 4.2kg

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

Main machine	TH8300 frame											
Supported modules	5											
Interface	RS232、USB HOST、USB DEVICE、LAN、GPIB、SYSTEM I/O、CAN											
Module												
Model	TH8301-80-20			TH8302-80-40			TH8303-80-60			TH8304-80-80		
Power	100W×2			200W×1			300W×1			400W×1		
Voltage	0-80V			0-80V			0-80V			0-80V		
Current	0-20A			0-40A			0-60A			0-80A		
Normal mode												
Constant voltage	Range 6V			16V			80V			1mV		
Resolution	0.1mV			1mV			1mV			0.05%+0.1%FS		
Constant current	Range 0-0.2A	0-2A	0-20A	0-0.4A	0-4A	0-40A	0-0.6A	0-6A	0-60A	0-0.8A	0-8A	0-80A
Resolution	0.01mA	0.1mA	1mA	0.01mA	0.1mA	1mA	0.01mA	0.1mA	1mA	0.01mA	0.1mA	1mA
Accuracy	0.1%+0.1%FS											
Constant resistance	Range 0.04-80Ω 100W/6V	1.44-2.9kΩ 100W/16V	5.76-12kΩ 100W/80V	0.02-40Ω 200W/6V	0.8-1.5kΩ 200W/16V	3-6kΩ 200W/80V	0.015-30Ω 300W/6V	0.3-600Ω 300W/16V	1.5-3kΩ 300W/80V	0.01-20Ω 400W/6V	0.36-720Ω 400W/16V	1.45-2.9kΩ 400W/80V
Resolution	0.1Ω											
Accuracy	1%											
Constant power	Range 0-2W	0-10W	0-100W	0-4W	0-20W	0-200W	0-6W	0-30W	0-300W	0-8W	0-40W	0-400W
Resolution	1mW	10mW	100mW	2mW	20mW	200mW	3mW	30mW	300mW	4mW	40mW	400mW
Accuracy	1%											
Advanced mode	dynamic test, dynamic frequency scan, CR-LED test, battery test, time test, MPPT test, OCPT test, OVPT test, OPPT test, sine wave test, list test, automatic test											
Dynamic mode-constant current mode												
Frequency range	100Hz-50kHz/0.01Hz-1kHz											
Accuracy	1μs/1ms+100ppm											
Measurement (read back)												
Voltage	Range 0-6V			0-16V			0-80V			1.4mV		
Resolution	0.2mV			0.3mV			0.025%+0.01%FS			0.01%+0.025%FS		
Current	Range 0-0.2A	0-2A	0-20A	0-0.4A	0-4A	0-40A	0-0.6A	0-6A	0-60A	0-0.8A	0-8A	0-80A
Resolution	0.004mA	0.04mA	0.4mA	0.008mA	0.08mA	0.8mA	0.012mA	0.12mA	1.2mA	0.016mA	0.16mA	1.6mA
Accuracy	0.05%+0.05%FS											
Protection function	Over voltage protection (OVP) Over current protection (OCP) Over power protection (OPP) Over temperature protection (OTP)											
Storage	40groups											