

Programmable DC Electronic Load

C. TH8200 Series Programmable DC Electronic Load

Features

- Constant current (CC), constant resistance (CR), constant power (CV), constant power (CP) operation mode
- Current remote control monitoring function, external trigger function
- 1mV/10μA high resolution, ripple measurement function
- Dynamic current/voltage test, up to 50K dynamic frequency
- Voltage and current measurement can achieve high precision while testing speed up to 100KHz
- Programmable soft start function
- CR-LED test, arbitrary I-V characteristics, battery test, dynamic scan test, load effect, list function and many other advanced functions
- Overvoltage (programmable), low voltage, over current (programmable), overpower (programmable), overheating, anti-reverse protection, etc.
- Remote voltage compensation input test function
- Short circuit function simulation
- The adoption of the Linux operating system makes the number of internal parameter file storages essentially unrestricted
- Perfect U disk function (parameter file storage and loading, interface screenshot, system firmware upgrade)
- Setting parameters support power-off memory function
- Intelligent temperature control fan
- RS232 (standard), USB (standard), Ethernet (standard), WIFI (optional)
- Matching with upper-computer software to achieve remote operation and monitoring matching



Standard RS232 USB HOST USB DEVICE HANDLER LAN

Dimension(mm): 215mm(W)x143mm(H)x525mm(D)[TH8201/TH8202/A]
 Dimension(mm): 430mm(W)x143mm(H)x525mm(D)[TH8203/TH8204]
 Weight: 7.8kg[TH8201] / 9.1kg[TH8202] / 8.7kg[TH8202A]

Application

- Power
Chargers, switching power supply, communication power, LED drivers, cell phone batteries, portable power source
- New energy
Solar cells, new power cars, electric bicycles
- Electronic power components
Fuse / Connector / Relay / Sensor
- Automated equipment integration testing

Specifications

Model	TH8201	TH8202	TH8202A	TH8202B	TH8203	TH8203A	TH8204	TH8204A	TH8204B	TH8205	
Input power	175W	350W	350W	500W	700W	700W	1000W	1000W	1200W	2000W	
Input voltage	150V										
Input current	0-40A	0-80A	0-40A	0-60A	0-160A	0-80A	0-200A	0-100A	0-160A	0-200A	
Static mode	Constant current (CC), constant resistance (CR), constant voltage (CV), constant power (CP)										
Minimum operating voltage	1.5V@0.4A	1.5V@0.8A	1.5V@0.4A	1.5V@0.8A	1.5V@1.6A	1.5V@0.8A	1.5V@2A	1.5V@1A	1.5V@1.6A	1.5V@2A	
	1.5V@4A	1.5V@8A	1.5V@4A	1.5V@8A	1.5V@16A	1.5V@8A	1.5V@20A	1.5V@10A	1.5V@16A	1.5V@20A	
	1.5V@40A	1.5V@80A	1.5V@40A	1.5V@80A	1.5V@160A	1.5V@80A	1.5V@200A	1.5V@100A	1.5V@160A	1.5V@200A	
Constant voltage (CV)	Range	0-15V									
	Resolution	1mV									
	Range	0-150V									
	Resolution	10mV									
Constant current (CC)	Range	0-400mA	0-800mA	0-400mA	0-800mA	0-1.6A	0-0.8A	0-2A	0-1A	0-1.6A	0-2A
	Resolution	0.01mA	0.02mA	0.01mA	0.02mA	0.04mA	0.02mA	0.06mA	0.03mA	0.04mA	0.05mA
	Range	0-4A	0-8A	0-4A	0-8A	0-16A	0-8A	0-20A	0-10A	0-16A	0-20A
	Resolution	0.1mA	0.2mA	0.1mA	0.2mA	0.4mA	0.2mA	0.6mA	0.3mA	0.4mA	0.5mA
	Range	0-40A	0-80A	0-40A	0-80A	0-160A	0-80A	0-200A	0-100A	0-160A	0-200A
	Resolution	1mA	2mA	1mA	2mA	4mA	2mA	6mA	3mA	4mA	5mA
Constant resistance (CR)	Range	0.1%+0.1%FS									
	Range	0.04Ω-40Ω	0.02Ω-20Ω	0.04Ω-40Ω	0.02Ω-20Ω	0.018Ω-18Ω	0.036Ω-36Ω	0.015Ω-15Ω	0.03Ω-30Ω	0.018Ω-18Ω	0.015Ω-15Ω
	Range	0.4Ω-400Ω	0.2Ω-200Ω	0.4Ω-400Ω	0.2Ω-200Ω	0.072Ω-72Ω	0.144Ω-144Ω	0.06Ω-60Ω	0.12Ω-120Ω	0.072Ω-72Ω	0.06Ω-60Ω
	Range	4.0Ω-4000Ω	2.0Ω-2000Ω	4.0Ω-4000Ω	2.0Ω-2000Ω	1.8Ω-3000Ω	3.6Ω-3000Ω	1.5Ω-3000Ω	3Ω-3000Ω	1.8Ω-3000Ω	1.5Ω-3000Ω
Constant power (CP)	Resolution	Vin/Rset*0.2%+0.2%FS									
	Range	0-1.75W	0-3.5W	0-3.5W	0-5W	0-7W	0-7W	0-10W	0-10W	0-12W	0-20W
	Resolution	0.175mW	0.35mW	0.35mW	0.5mW	0.7mW	0.7mW	1mW	1mW	1.2mW	2mW
	Range	0-17.5W	0-35W	0-35W	0-50W	0-70W	0-70W	0-100W	0-100W	0-120W	0-200W
	Resolution	1.75mW	3.5mW	3.5mW	5mW	7mW	7mW	10mW	10mW	12mW	20mW
	Range	0-175W	0-350W	0-350W	0-500W	0-700W	0-700W	0-1000W	0-1000W	0-1200W	0-2000W
Resolution	17.5mW	35mW	35mW	50mW	70mW	70mW	100mW	100mW	120mW	200mW	
Precision	0.3%+0.3%FS										
Dimensions and weight											
Dimensions (mm)	215*129*479mm				430*129*479mm				430*129*479mm		
Weight(kg)	7.8kg	9.1kg	8.7kg	9.1kg	15.6kg	15.3kg	17.6kg	17.3kg	17.6kg	20kg	

Programmable DC Electronic Load

C. TH8200 Series Programmable DC Electronic Load

Model	TH8212	TH8214	TH8215	
Input power	500W	800W	1200W	
Input voltage	10-800V			
Input current	0-15A	0-30A	60A	
Static mode	Constant current (CC), constant resistance (CR), constant voltage (CV), constant power (CP)			
Minimum operating voltage	10V@0.15A	10V@0.3A	10V@0.6A	
	10V@1.5A	10V@3A	10V@6A	
	10V@15A	10V@30A	10V@60A	
Constant voltage (CV)	Range	0-80V		
	Resolution	5mV		
	Range	0-800V		
	Resolution	50mV		
Constant current (CC)	Precision	0.05%+0.05%FS		
	Range	0-0.15A	0-0.3A	0-0.6A
	Resolution	0.01mA	0.01mA	0.02mA
	Range	0-0.15A	0-3A	0-6A
	Resolution	0.1mA	0.1mA	0.2mA
	Range	0-15A	0-30A	0-60A
	Resolution	1mA	1mA	2mA
Constant resistance (CR)	Precision	0.1%+0.1%FS		
	Range	0.3Ω-3kΩ	0.2Ω-2kΩ	0.15Ω-1.5kΩ
	Range	1.2Ω-12kΩ	0.8Ω-8kΩ	0.6Ω-6kΩ
	Range	30Ω-60kΩ	20Ω-40kΩ	15Ω-60kΩ
	Resolution			
Constant power (CP)	Precision	Vin/Rset*0.2%+0.2%FS		
	Range	0-5W	0-8W	0-12W
	Resolution	0.5mW	0.8mW	1.2mW
	Range	0-50W	0-80W	0-120W
	Resolution	5mW	8mW	12mW
	Range	0-50W	0-800W	0-1200W
	Resolution	50mW	80mW	120mW
Precision	0.3%+0.3%FS			
Protection function: over power protection (OPP), over current protection (OCP), over voltage protection (OVP), over temperature protection (OTP), reverse voltage alarm (REV), under voltage protection (UVP)				
Short circuit function				
Interface: network port LAN, Handler port, USB Host, USB Device, parallel interface				
Power supply and safety				
Power supply	110/220VAC			
Power frequency	50/60Hz			
Safety certificate	CE			
Environment and temperature				
Operating temperature	0-40°C			
Storage temperature	-20-80°C			
Dimensions and weight				
Dimensions (mm)	215*129*479mm			
Weight (kg)	7.8kg--215*129*479mm	9.1kg--430*129*479mm	8.7kg--430*129*479mm	

Standard Accessories

Three-core power cord
YT3008 test cable X 1