CT-8000 Specification

1. Model	
Material code	CT-8002S-5V100mA-CV
2. Items	**Values**
Input power	AC 220V ±10% / 50Hz
Input power	20W
Resolution	AD：24bit；DA：16bit
Input resistance	≥1GΩ
Overall system efficiency	Not
Noise	<55dB (measured at 1m)
Parallel ability	Channel parallelism is not supported
IP Level	IP20
Channels feature	Independent pairs of closed loop for constant current source and constant voltage source
Channels control mode	Independent control
Data acquisition	Four-wire connection
3. Voltage	
Output range	-5V-5V
Min discharge voltage	-5V
Accuracy	± 0.01% of FS
Stability	0.02% of FS
4. Current	
Output range	Range1: 0.1mA; Range2: 1mA; Range3: 5mA
	Range4: 10mA; Range5: 50mA; Range6: 100mA
Accuracy	± 0.01% of FS
Minimum output current	0.2μA
CV cut-off current	Range1: 0.1μA; Range2: 1μA; Range3: 5μA
	Range4: 10μA; Range5: 50μA; Range6: 0.1mA
Stability	0.02% of FS
5. Power	
Single channel output power	0.5W
Accuracy	±0.02% of FS

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Stability	0.04% of FS
6. Time	
Current response time	≤20μs (10% ~ 90% of FS)
Current conversion time	≤20μs (-90% ~ 90% of FS)
Working step time	≤(365*24)h/step Time format-00:00:00.000(h, m, s, ms)
Frequency	1000Hz (Minimum time interval: 1ms)
7. Working mode	
Charge/Discharge modes	CC,CV,CCCV,CP,Pulse,etc
Cut-off condition	Voltage, current, time, capacity,energy,etc
DCIR	supported
Pulse charge/discharge mode	Current, Power
Min pulse	5ms
Pulse counts	Up to 32
Chg and Dchg switch	unsupported
Cut-off condition	Voltage, ΔTime
8. Cycle	
Max cycles	1~65535
Max steps	≤255
Cycle nest	<10
9. Protection mode	
Software protection	Safety protection conditions can be set, including: voltage lower limit, voltage upper limit, current lower limit, current upper limit, etc.
Hardware protection	Anti-reverse connection, over-voltage, over-current, over-temperature, etc.
10. Communication and Computer Configuration Requirements	
CPU	Pentium dual-core or above, frequency 4G or above
Computer memory	Recommended 16G or above
Connection for PC	TCP/IP
Disk drive config	Min. 500GB
PC operating system	Windows 7 and above
Database	MySQL
Data Export Format	EXCEL、TXT、GRAPH、PDF、CSV

11. Operation and storage environment requirement			
Operating temperature	0℃~40℃ (When the temperature is 25±10℃, the accuracy offset caused by temperature is less than 50ppm /℃)		
Storage temperature	-10℃~50℃		
Operating humidity	≤70% RH (no moisture condensation)		
Storage humidity	≤80% RH (no moisture condensation)		
12. Fixture specifications and equipment dimensions			
Clamp types	Optional (to be clearly marked during order confirmation)		
Clamps pictures			
	Alligator	Polymer	Ring Connector
	For reference only		
Channel	2		
Dimension W*D*H(mm)	226*127*48		
Tester picture			
	For reference only		