

CT-8000 Specification

1. Model

Material code	CT-8002S-5V100mA-CV
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2. Items

Values

Input power	AC 220V $\pm 10\%$ / 50Hz
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Input power	20W
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Resolution	AD: 24bit; DA: 16bit
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Input resistance	$\geq 1\text{G}\Omega$
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Overall system efficiency	Not
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Noise	<55dB (measured at 1m)
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Parallel ability	Channel parallelism is not supported
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IP Level	IP20
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Channels feature	Independent pairs of closed loop for constant current source and constant voltage source
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Channels control mode	Independent control
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Data acquisition	Four-wire connection
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3. Voltage

Output range	-5V-5V
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Min discharge voltage	-5V
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Accuracy	$\pm 0.01\%$ of FS
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Stability	0.02% of FS
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4. Current

Output range	Range1: 0.1mA; Range2: 1mA; Range3: 5mA
	Range4: 10mA; Range5: 50mA; Range6: 100mA

Accuracy	$\pm 0.01\%$ of FS
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Minimum output current	0.2 μ A
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CV cut-off current	Range1: 0.1 μ A; Range2: 1 μ A; Range3: 5 μ A
	Range4: 10 μ A; Range5: 50 μ A; Range6: 0.1mA

Stability	0.02% of FS
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5. Power

Single channel output power	0.5W
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Accuracy	$\pm 0.02\%$ of FS
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Stability	0.04% of FS
6. Time	
Current response time	$\leq 20\mu\text{s}$ (10% ~ 90% of FS)
Current conversion time	$\leq 20\mu\text{s}$ (-90% ~ 90% of FS)
Working step time	$\leq (365*24)\text{h}$ /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°C~40°C (When the temperature is 25±10°C, the accuracy offset caused by temperature is less than 50ppm /°C)
Storage temperature	-10°C~50°C
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		