CT-8000 Specification

1. Model	
Material code	CT-8002S-5V100mA-EIS
2. General	
Resolution	AD: 24bit, DA: 16bit
Input impedance	≥1GΩ
Noise	<2dB
Parallel ability	No
IP Level	IP20
Channels feature	CC and CV sources adopt a dual closed-loop structure
Channels control mode	Independent control
Cell connection	4 terminal
3. Voltage	
Range	-5V~5V
Minimum discharge voltage	-5V
Accuracy	±0.01% of FS
Stability	0.02% of FS
4. Current	
Ranges	0.1mA, 1mA, 5mA, 10mA, 50mA, 100mA
Accuracy	±0.01% of FS
Stability	0.02% of FS
5. Power	
Range	0.5W
Accuracy	±0.02% of FS
Stability	0.04% of FS
6. Time	
Current rise 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)
Data acquisition rate	1000Hz

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7. Working mode	
Charge/Discharge modes	CC, CV, CCCV, CP, Pulse, etc
Cut-off condition	Voltage, current, time, capacity, energy, etc
Cyclic Voltammetry(CV)	Voltage scan range: -5V~5V, voltage scan rate: 0.01mV/s~1V/s
EIS frequency range	10mHz~200kHz
DCIR	Supported
Pulse charge/discharge modes	Current, Power
Minimum pulse time	5ms
Maximum pulse counts	32
Pulse charge/discharge switch	Supported
Pulse cut-off condition	Voltage, ΔTime
8. Cycle	
Maximum cycles	65535
Maximum steps	255
Maximum 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	Over-voltage, over-current, over-temperature, etc
10. Communication and computer configuration requirement	
CPU	Recommended Core i3 or above
Memory	Recommended 16G or above
Disk	Recommended 500G or above
Connection for PC	TCP/IP or USB Type-C
PC operating system	Windows 11
Database	MySQL
Data export format	EXCEL、TXT、GRAPH、PDF、CSV
11. Operation and storage environment requirement	
Operating temperature	0℃~40℃ (guaranteed accuracy within 25±5℃, accuracy drift: ≤ 0.005% of FS per ℃)
Storage temperature	-10℃~50℃
Operating humidity	≤70% RH (no moisture condensation)

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Storage humidity	≤80% RH (no moisture condensation)		
12. Fixture specification and equipment dimension			
Clamp types	Optional (to be clearly marked during order confirmation)		
Clamps pictures			
	Coin Cell	Pouch Cell	Alligator
	For reference only		
Channels	2		
Dimension W*D*H(mm)	127*226*48		
Tester picture			
	For reference only		