

CT-8000 Specification

1. Model

Material code	CT-8002S-5V100mA-EIS
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2. General

Resolution	AD: 24bit, DA: 16bit
Input impedance	$\geq 1G\Omega$
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	$\pm 0.01\%$ of FS
Stability	0.02% of FS

4. Current

Ranges	0.1mA, 1mA, 5mA, 10mA, 50mA, 100mA
Accuracy	$\pm 0.01\%$ of FS
Stability	0.02% of FS

5. Power

Range	0.5W
Accuracy	$\pm 0.02\%$ of FS
Stability	0.04% of FS

6. Time

Current rise time	$\leq 20\mu s$ (10% ~ 90% of FS)
Current conversion time	$\leq 20\mu s$ (-90% ~ 90% of FS)
Working step time	$\leq (365*24)h/step$, time format-00: 00: 00.000(h: m: s.ms)
Data acquisition rate	1000Hz

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 °C)
Storage temperature	-10℃~50℃
Operating humidity	≤70% RH (no moisture condensation)

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		