

CE-4000 Specification**1. Model**

Material code	CE-4008-20V10A-SR
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2. Items**Values**

Input power	AC 220V $\pm 10\%$ / 50Hz
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Input power	2300W
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Resolution	AD: 24bit; DA: 16bit
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Input resistance	$\geq 1\text{M}\Omega$
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Overall system efficiency	$> 70\%$
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Noise	$< 75\text{dB}$ (measured at 1m)
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Parallel ability	Channel parallelism is 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	0.1V-20V
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Min discharge voltage	2V (2m wire length)
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Accuracy	$\pm 0.02\%$ of FS
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Stability	0.1% of FS
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4. Current

Output range	10A
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Accuracy	$\pm 0.02\%$ of FS
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Minimum output current	0.5% of FS (per independent range)
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CV cut-off current	0.2% of FS (per independent range)
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Stability	0.04% of FS
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5. Power

Single channel output power	200W
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Accuracy	$\pm 0.07\%$ of FS
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Stability	0.14% of FS
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6. Time

Current response time	≤1ms (10% ~ 90% of FS)
Current conversion time	≤10ms (-90% ~ 90% of FS)
Working step time	≤(365*24)h/step Time format-00:00:00.000(h, m, s, ms)
Frequency	10Hz (Minimum time interval: 100ms)
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	100ms
Pulse counts	Up to 32
Pulse charge/discharge switch	A pulse - based step can achieve continuous switching during charging or discharging.
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
Communication expansion(optional)	Support CAN, RS485 communication and BMS communication, with DBC configuration function

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	8		
Dimension W*D*H(mm)	3U(19"), 483*438*130		
Tester picture			
	For reference only		