Specifications

Date：2026-05-12

CE-6000 Specification	
1.Model	
1. Material code	**CE-6004-Plus-5V300A**
2.Test system information	
1. Channels quantity	4
2. Channel parallel connection	Support max 8 channels parallel mode
3. Input power supply	3PH-AC380V±15% 50/60±5Hz
4. Power factor	≥99%(Full load)
5. THDi	≤5%(Full load)
6. Input power	8.6KW
7. Input current	13.0A/single
8. Overall system efficiency(Max)	75%
9. Noise	≤65dB
10.Equipment size W*D*H	730*600*1050(mm)
11.Weight	About143KG
12.Appearance of equipment (for reference)	**=DISPIMG("ID_74CA1ECD79AD48DD9ECFEE0943AED7B2",1)**

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13. Power control module type	MOSFET	
14. Input power wiring method	Three-phase-five wire system	
15. Power input protection	Anti-surge, anti-islanding, over-under-frequency, over-under-voltage, open-phase protection, etc	
16. Ingress protection	IP20	
3.The function and dperformance indicators		
1. Voltage and current sampling	Four-wire connection (same port for charging and discharging)	
2. Voltage and current sampling	Output range	Charge: 0V ~ 5V
		Discharge: 1.5V ~ 5V
	Min discharge voltage	1.5V
	Accuracy	±0.02% of FS
	Resolution	24bit
3. Current	Output range	Range1: 0.15A ~ 75A；Range2: 75A ~ 150A；Range3: 150A ~ 300A
	Accuracy (independent range)	±0.02% of FS
	CV cut-off current	0.05% of FS（Each independent range）
	Resolution	24bit
4. Power	Single channel output power	1.5KW
	Whole machine output power	6KW
5. Time	Current response time（10%FS TO 90%FS）	≤3ms
	Current conversion time（-90%FS to 90%FS）	≤6ms
	Min step time	0.1s
6. Input impedance	≥1MΩ	
7. Charge/Discharge modes	Charge/Discharge modes	CCC&CCD, CVC&CVD, CC-CVC&CC-CVD, CPC&CPD, CP-CVC&CP-CVD, CV-CRD, CRD, VSS, CSS
	Cut-off condition	Voltage,Current,Δtime,Capacity,-ΔV
8. Simulation	Charge/Discharge modes	Current,Power
	Switch	Support continuous switching between charge and discharge
	Cut-off condition	Time, step line
	Steps file lines	1000000

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9. Pulse step	Charge/Discharge modes	Current,Power
	Min pulse	50ms
	Pulse counts	Up to 32
	Charge and discharge switch	Support
	Cut-off condition	Voltage, ΔTime
10、DCIR	DCIR by calculation	
11. Safely protection	Software protection	Safety protection conditions can be set, including:voltage lower limit ,voltage upper limit ,current lower limit ,current upper limit ,delay time, etc.
	Hardware protection	Anti-reverse connection, over-voltage, over-current, over-temperature, etc.
4.Data management and analysis		
1. Step setting method	Form editing	
2. Recording frequency	100Hz(connected with AUX channel:10Hz)	
3. Database	MySQL database	
4. Data output mode	Excel、Txt	
5. Curve type	Templates available, customization supported	
6. Loop test range	1～65535	
7. Number of steps in a single loop	1000+	
8. Loop nesting	≤10	
5.The communication mode		
1.The host computer communication mode	Based on TCP/IP protocol	
2.Communication interface	Ethernet	
3.The lower computer communication baud rate	1M bandwidth	
4.The host computer communication baud rate	10M～100M adaptive	
5. Networking mode	Set up local area network through switches and routers	
6. Communication expansion (optional)	1. Support CAN,RS485 communication and BMS communication,with DBC configuration function 2. Support third party equipments integration: environment test chamber,water chiller,pressure fixture	

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6.AUX Auxiliary Test system(optional)		
1.Temperature auxiliary channel	Temperature range	Thermocouple：-200℃～260℃
	Temperature accuracy	±1℃
	Temperature resolution	0.1℃
2. Voltage auxiliary channel	Voltage range	0V～5V
	Voltage accuracy	±0.05% of FS
	Voltage resolution	0.1mV
3. Introduction to AUX	It is mainly used to monitor the surface and tab temperature in the battery testing process,with high testing accuracy.The test data can be bound with the main voltage and current data,and the measured temperature can be used as the control condition and protection condition of the process step	
7.Environmental requirements		
1.Working temperature	0℃ ~ 40℃(with in the range of 25± 5℃, the measurement accuracy is guaranteed:the accuracy drift is 0.005% of FS /℃)	
2.Storage temperature	-20℃~50℃	
3.Relative humidity of working environment	≤70% RH (no water vapor condensation)	
4. Relative humidity of storage environment	≤80% RH(no water vapor condensation)	
5. Working altitude	≤2000m； Above an altitude of 2000m,the operating temperature is derated. For every 100m increase in altitude, the maximum operating temperature decreases by 1°C	

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