CE-6000 Specification

1. **Model**	
1. Material code	CE-6002n-1500V200A

2. **Test system information**	
1. Channels quantity	2
2. Channel parallel connection	Support max 4 channels parallel mode
3. Input power supply	3PH-AC380V±10% 50/60±5Hz
4. Power factor	≥99%(Full load)
5. THDi	≤5%(Full load)
6. Input power	1cabinets, each cabinet 652.2KW
7. Input current	1cabinets, each cabinet 990.9A/single
8. Overall system efficiency(Max)	96%
9. Noise	≤75dB
10.Equipment size W*D*H	1cabinets, each cabinet900*1000*1850mm(mm)
11.Weight	1cabinets, each cabinet 700KG
12. Power control module type	IGBT
13. Input power wiring method	Three-phase-four wire system
14. Power input protect	iAnti-surge, anti-islanding, over-under-frequency, over-under-voltage, open-phase protection, etc
15. Ingress protection	IP20

3. **The function and performance indicators**		
Voltage and current sampling	Four-wire connection (same port for charging and discharging)	
Voltage	Output range	Charge：0V～1500V
		Discharge ：100V～1500V
	Min discharge voltage	100V
	Accuracy	±0.02% of FS

	Resolution	24bit
Current	Output range	1A～200A
	Accuracy (independent range)	0.02% of F.S.
	CV cut-off current	0.05% of F.S.（Each independent range）
	Resolution	24bit
4. Power	Single channel output power	300KW
	Whole machine output power	600KW
5. Time	Current response time （10%FS TO 90%FS）	≤10ms
	Current conversion time （-90%FS to 90%FS）	≤20ms
	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
	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
9. Pulse step	Charge/Discharge modes	Current,Power
	Min pulse	100ms
	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(10 Hz when two AUX channels allocate under one main channel)
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	≤255
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	1M band width
4.The host computer communication baud	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

6. AUX Auxiliary Test system(optional)

1.Temperature auxiliary channel	Temperature range	Type T thermocouples: -70℃~260℃
	Temperature accuracy	±1℃
	Temperature	0.1℃

	resolution	
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	

7. Environmental requirements

1.Working temperature	-10℃ ~ 40℃ (with in the range of 25± 5℃, the measurement accuracy is guaranteed:the accuracy drift is 0.005% ofFS /℃)
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℃