

CE-6000 EOL Specifications

1.Model

1.Material code CE-6001n-EOL-200V200A

2.Input

1.Input power supply 3PH-AC380V±15% 50/60±5Hz

2.Input power 47.1 KW

3.Input current 71.5A/single

4.Input power wiring method Three-phase-five wire system

5. Insulation withstand voltage detection point 3

6. Number of insulation withstand voltage test interfaces 2

7. Insulation withstand voltage detection point 2

8. The number of multimeter test interfaces 4

3.Functionality and performance metrics

1.Charging and	1.Voltage	Output range	Charge:0V~200V
			Discharge:5V~200V
		Min discharge voltage	5V
		Accuracy	±0.02% of FS
	2.Current	Resolution	24bit
		Output range	Range1: 25A; Range2: 50A; Range3: 100A; Range4: 200A
		Accuracy (independent range)	±0.05% of FS
		CV cut-off current	0.05% of FS (Each independent range)
	3.Power	Resolution	24bit
		Single channel output power	40KW

discharging	4.Time	Current response time	≤3ms
		Current conversion time	≤6ms
		Min step time	0.1s
	5.DCIR	DCIR	DCIR by calculation
	6.Security	Software protection	Power-off data protection
			Offline testing function
			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.
2.AC internal resistance meter	Key parameters	ACIR Internal resistance measurement	Range: 3mΩ-300Ω range Optional
			Rated input voltage: ±300V
			Resolution: Max 0.1uΩ
			Accuracy: Max ±0.5%rdg.±10dgt
3.Withstand voltage tester	Key parameters	Insulation resistance test	0.1M ~ 500GΩ
		DC hipot test	DC(0.05~6.00)kV
		AC hipot test	AC (0.05~5.00)kV
4.Multimeter	Key parameters	resolution	Six-and-a-half-digit high-precision
		DCV, ACV	100 mV ~ 1,000 V
		DCI, ACI	100 μA ~ 10 A
5.Temperature and humidity tester	Key parameters	Humidity	±2%RH(60%RH, 25°C)
		Temperature	±0.5°C(25°C)
		Range	-20°C~+60°C, 0%RH~95%RH(Non-condensing)
6.Barcode scanner	Key parameters	Readable barcodes	1D/2D code
		Methods of Communication	Wireless

		Scanning principle	Image-based scanning
7.Programmable power supply	Key parameters	Rated voltage	0~36V
		Rated current	0~10A
		Noise	2mVrms, 6mArms
8. Insulation Resistance Simulator	Key parameters	Resistance range	50Ω~100MΩ
		Highest withstand pressure	2000V
		Resolution	50Ω
9.Aux channel	Temperature	Range	T thermocouple: -70℃~260℃
		Accuracy	±1℃
		Resolution	0.1℃
	Voltage	Range	0V~5V
		Accuracy	±0.05% of FS
		Resolution	0.1mV
	AUX brief introduction	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.	

4. EOL Test items

Number	Test items	Function	Software and hardware
1.	Safety performance testing	Insulation resistance test	Withstand Voltage Tester
2.		Withstand voltage test	Withstand Voltage Tester
3.		Insulation alarm function detection	Insulation Resistance Simulator
4.		HVIL test	Software、CAN
5.		Short Circuit Detection	Multimeter

6.		Simulate collision signals	Hardware boards
7.	Battery	AC internal resistance test	AC internal resistance meter
8.		DC internal resistance test	Battery charging and discharging equipment
9.		Relay detection	Multimeter, CAN, software
10.		Charge and discharge	Battery charging and discharging equipment
11.		Capacity	Battery charging and discharging equipment
12.		Cycle life	Battery charging and discharging equipment
13.		Charge/discharge loop test	CAN, voltmeter
14.		SOC adjustments	Battery charging and discharging equipment
15.		Overcharge/over-discharge protection function test	Battery charging and discharging equipment、CAN
16.		BMS initialisation	CAN、software
17.		Charging communication test	CAN、software
18.		Vehicle communication test	CAN、software
19.		CAN communication test	CAN、software
20.		Diagnosis of equalisation function	CAN
21.		Ambient temperature comparison	Temperature and humidity tester

22.	BMS test	BMS Static power consumption	Multimeter
23.		Fast charging state test	CAN、Hardware boards
24.		Slow charging state test	CAN、Hardware boards
25.		Cell voltage test	CAN
26.		Cell voltage difference detection	CAN
27.		Cell temperature detection	CAN
28.		Total voltage accuracy detection	Software, multimeters
29.		Software and hardware version number detection	Software、CAN
30.		Clear the fault code	Software、CAN
31.	Auxiliary features	Heating film resistance test	CAN, multimeters
32.		Resistance detection	Multimeters, software
33.		Integrated inspection instrument	Aux channels
34.		Shipment status test	CAN、software
5.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.Data output mode			Excel、Txt

4.Barcode scanning		It supports barcode scanning function, which can be realised through the battery barcode.
6.The communication mode		
1.The host computer communication mode		Based on TCP/IP protocol
2.Communication interface		Ethernet
3.The host computer communication baud		10M~100M adaptive
4.Networking mode		Set up local area network through switches and routers
5.Communication expansion (optional)		1. Support CAN,RS485 communication and BMS communication,with DBC configuration function 2. Support third party equipments integration: environmental chamber,water chiller,presure fixture,etc.
7.Environmental requirements and size, weight		
1.Working temperature		10°C ~ 40°C (with in the range of 25± 10 °C, the measurement accuracy is guaranteed : the accuracy drift is 0.005% of FS /°C)
2.Storage temperature		-20°C~50°C
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.Size W*D*H		600*800*1850(mm)
6. Weight		About 350KG