Specifications

CE-6000 Specification

1, Model

1. Material code

CE-6004n-300V500A-IG

2、 Channels information

1. Channels quantity	Channels quantity in	4
	one unit	4
2. Main channel	Channel feature	Constant current source and constant voltage source
		dual closed loop control
	Channel control	Independent control
	mode	independent control
	Channel parallel connection	Support max 4 channels parallel mode. Pulse and SIM
		tests will be disabled in channels parallel mode.

3、 Power grid side parameters

1.Input power	AC380V±10% 50/60±5Hz
2.Power factor	≥99%(Full load)
3.THDi	≤5%(Full load)
4.Input resistance	≥1MΩ
5.Input power	666.7KW
6.Input current	1012.9 A/single
7.Overall system efficiency(Max)	94%
8.Noise	≤75dB
9.Voltage and current sampling	Four-wire connection(same port for charging and discharging)
10.Power control module type	IGBT
11.Input power wiring method	Three-phase-four wire system
12.Power input protection	Anti-surge, anti-silos, anti over or under frequency, anti over or under voltage, anti phase absence, etc.

4、 Functions and performances

1. Voltage	Output range	Charge:0V~300V
		Discharge:5V~300V
	Min discharge voltage	5V



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	Accuracy	±0.02% of FS
	Resolution	24bit
2. Current	Output range	2.5A~500A
	Accuracy(independe nt range)	±0.05% of FS
	CV cut-off current	500mA
	Resolution	24bit
	Single channel	1507200
3. Power	output power	150KW
J. FOWEI	Whole machine	600KW
	output power	0001XW
	Current response	≪5ms
4 5	time	
4. Time	Current conversion time	$\leq 10 \text{ms}$
	Min. step time	0.1s
		CCC, CVC, CC-CVC, CPC
5. Charge/Discharge modes	Charge/Discharge modes	CCD, CVD, CPD, CRD
modes	Cut-off condition	Voltage, Current, Δ Time, Capacity, - Δ V
	Charge	Current, Power
	Discharge	Current, Power
6. Simulation	Switch	Support continuous switching between charge and discharge
	Cut-off condition	Time, step line
	Steps file lines	1,000,000
	Charge	Current, power
	Discharge	Current, Power
	Min pulse	100ms
7. Pulse Mode	Pulse counts	Up to 32
	Charge and discharge switch	supported
	Cut-off condition	Voltage, ∆Time
8. DCIR		DCIR by calculation
9. Safely protection		Power off data protection
	Software protection	Offline mode 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.
5, Data managen	nant and analysis	<u>.</u>
Jy Data managen		

1. Step setting method Web:www.newarebattery.com

Form editing

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Specifications

2. Data report	Recording conditions	Minimum time interval: 10ms(connected with AUX
		channel:100ms)
		Minimum voltage interval: 0.6V
		Minimum current interval: 1A
	Recording frequency	100Hz(connected with AUX channel:10Hz)
3. Database		MySQL database
4. Data output		Excel, Txt
5. Curve type		Templates available, customization supported
6. Bar code scanning		Support bar-code scanning function
		Management and traceability of historical data

6、Communication

1. Host computer communication	TCP/IP protocol
2. Communication port	Ethernet
3. Communication baud rate of the testers	1M
4. Host computer communication baud rate	10M~100M adaptive
5. Communication setup	Set up a LAN(local area network) through switches and routers
6. Communication expansion(optional)	Support CAN, RS485 communication and BMS communication, with DBC configuration function

7, Environmental requirements, dimension and weight

1. Operation environment temperature	-10°C~40°C(When the temperature is 25±10°C, the accuracy error caused by temperature change is less than 0.005% of FS per degree)
2. Storage environment temperature	-20°C~50°C
3. Operation environment humidity	≤70% RH(no moisture condensation)
4. Storage environment humidity	≤80% RH(no moisture condensation)
5. Dimension W*D*H	/
6. Weight	/
7. Tester Picture(Pictures just for reference)	

Specifications

8、Auxiliary test sy		Thermistor: -30°C~120°C
1. Temperature aux channels	Temperature range	Thermocouple: -200°C~260°C
	Temperature accuracy	$\pm 1^{\circ}C$ (Length within 2m)
	Temperature resolution	0.1°C
2. Voltage aux channels	Voltage range	0V~5V
	Voltage accuracy	±0.1% of FS
	Voltage resolution	0.1mV
3. Aux Introduction	It is used to monitor the temperature of the battery surface or the tabs during the test. The aux test data can be bound with the main voltage and current data. At the same time, the measured temperature can be used as the control condition and protection condition of the test profiles.	

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