CE-6000 Specification				
1. Model				
1. Material code	CE-6004n-5V600A-H			
2. Channels inform	nation			
1. Channels quantity	Channels quantity in one unit	4		
	Channel feature	Constant current source and constant voltage source dual closed loop control		
2. Main channel	Channel 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. AC input pow	er functions and	performances		
1. Input power		AC380V±15% 50/60±5Hz		
2. Power factor		≥99%(Full load)		
3. THDi		≤5%(Full load)		
4. Input resistance		≥500MΩ		
5. Input power		16KW		
6. Input current		24.3A/single		
7. Overall system efficiency(Max)		75%(80% minimum output power)		
8. Noise		≤65dB		
9. Power control module type		MOSFET		
10. Energy management	High power density	 Bidirectional ACDC, DCDC topology, high power density Small footprint, savings and efficiency 		
	Intelligent Energy Regeneration	 Full power energy feedback, energy recycle between channel priority Intelligent regenerative 		
11. AC power supply connection		Three-phase five-wire (3W+N+PE)		
12. Power input protection		Anti-surge, anti-silos, anti over or under frequency, anti over or under voltage, anti phase absence, etc.		
4. DC input power	functions and po	erformances		
	Output range	Charge: 0V∼5V		
1 Voltage		Discharge:25mV~5V		
1. Voltage	Min discharge voltage	2V		

	Accuracy	±0.05% of FS
	Resolution	24bit
2. Current	Output range	3A~600A
	Accuracy(independe nt range)	±0.05% of FS
	CV cut-off current	1.2A
	Resolution	24bit
	Single channel	OV.VV.
2 D	output power	3KW
3. Power	Whole machine	12KW
	output power	12KW
4. T'	Current response time	<=5ms
4. Time	Current switch time	<=10ms
	Min. step time	500ms
	Charge/Discharge	CCC, CVC, CC-CVC, CPC
5. Charge/Discharge modes	modes	CCD, CVD, CPD, CRD
	Cut-off condition	Voltage, Current, Δ Time, Capacity, - Δ V
	Programme scheme	Form editing
6. Working step programme	Goto and logical operation	 Every step supported: dynamic variable as control argument Multiple static / dynamic combine logical operation Multiple "goto" exit to different cycle layer
	Max steps	254
	Cycle loop	3 layers
	Single step	Independent safety protection and data record
	Charge	Current, Power
	Discharge	Current, Power
7.Simulation	Switch	Support continuous switching between charge and discharge
	Cut-off condition	Time, step line
	Steps file lines	1,000,000
	Typical simulation	FUDS, HPPC, DST, etc.
	Charge	Current, power
	Discharge	Current, Power
	Min pulse	100ms
8.Pulse Mode	Pulse counts	Up to 32
	Charge and discharge switch	supported
	Cut-off condition	Voltage, ΔTime
9.DCIR		DCIR by calculation
Auxiliary peripheral (optional)	supported	Connection with:
		 Voltage , temperature AUX Pressure Transducer
		3. High-low temperature testing chamber

Web: www.newarebattery.com Email: chris@newarebattery.com Sale rep: Chris Chen

		4. Chiller
		5. The insulation on-line monitoring device
		6. Adjustable power supply
		7. Balancing equipment
		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
10.Safely protection		time, etc.
		1.Anti-reverse connection, over-voltage, over-current,
		over-temperature, etc.
	Hardware protection	2. Peripheral auxiliary variable protection(redundant
		voltage, auxiliary monitoring temperature, pressure,
		High-low temperature environment testing chamber)
5. Data manageme	ent and analysis	
1. Step setting method		Form editing
		Minimum time interval: 10ms(connected with AUX
	Recording conditions	channel:100ms)
2. Data report		Minimum voltage interval: 5mV
		Minimum current interval: 450mA
	Recording frequency	100Hz(connected with AUX channel:10Hz)
3. Database		MySQL database
4. Data output		Excel, Txt, Graph/Plot
5. Curve type		Templates available, customization supported
(D 1 :		Support bar-code scanning function
6. Bar code scanning		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		10M_100M adaptive
communication baud rate		10M~100M adaptive
5. Communication setup		Set up a LAN(local area network) through switches and routers
6. BMS Communication expansion (optional)		Supported:
		1. CAN, CANFD(optional) RS485 BMS
		communication
		2. DBC configuration function3. Dynamic follow: automatic switch chr &dischr,
		current max/mini limitation

Web: www.newarebattery.com Email: chris@newarebattery.com Sale rep: Chris Chen

7. Environmental	requirements, di	mension and weight
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. Altitude		≤2500m
6. Dimension W*D*H		600*800*1800(mm)
7. Weight		<300KG
7. Tester Picture(Pictures just for reference) 8. Auxiliary test sy	vstam(ontional)	NEWARE
- Tuamary test sy		TI 1 2000 12000
Temperature aux channels	Temperature range	Thermistor: -30°C~120°C
		Thermocouple: -200°C~260°C
	Temperature accuracy	±1°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



Specifications www.newarebattery.com

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.

Web: www.newarebattery.com Email: chris@newarebattery.com Sale rep: Chris Chen