





NEWARE Specifications

BTS8000-5V1000A Battery testing system												
Model:	BTS8000-	5	V	1000	A	Battery testing system		SN:	CT-8002	-5V1000A	-	NA
Items						Values						
Input AC						AC 380V/208V ±10% / 50Hz						
Input power						17722		W				
Resolution						AD: 16bit; DA: 16bit						
Input Impedance						≥1MΩ						
Voltage	CV output range					0.025V~5V						
	Min discharge voltage					2.5V						
	Accuracy					± 0.05% of FS						
	Stability					± 0.05% of FS						
Current	Output range/channel					Range 1: 10A; Range 2: 250A; Range 3: 500A; Range 4: 1000A						
	Accuracy					± 0.05% of FS						
	CV cut-off current					5A						
	Stability					± 0.05% of FS						
Power	Max power/channel					5000		w				
	Stability					± 0.2% of FS						
Time	Response time					Max current response time<20ms						
	Working step time					≤(365*24)hour/step, Time format: 00:00:00.000(h,m,s,ms)						
Data record	Data record conditions					Min data record interval: 10ms						
						Min voltage record: 10mV						
						Min current record: 2000mA						
	Frequency					100Hz						
Charge	Charge modes					CC、CV、CCCV、CP、Pulse、Simulation						
	Cut-off conditions					Voltage、Current、Time、Capacity、-△V						
Discharge	Discharge modes					CV、CP、CR						
	Cut-off conditions					Voltage、Current、Time、Capacity						
Pulse Modes	Charge					CC、CP						
	Discharge					CC、CP						
	Min pulse					500ms						
	Pulse counts					up to 32						
	Continuous charge and discharge switch					Supported						
	Cut-off conditions					Voltage, Time						
Simulation	Charge					Current, Voltage						
	Discharge					Current, Voltage						
	Cut-off conditions					Time, step line						
	Continuous charge and discharge switch					Supported						
	Steps file lines					100,000						
DCIR	Supported											
Multi ranges	4 ranges											

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Channels union	Up 2 channels, and unable to do pulse and simulation after union.		
Cycle	Max cycles	65535	
	Max steps	254	
	Max cycle nest	3	
Protection	Safety protection	● Power-off data protection	
		● Off-line operation mode	
		● User-defined protection conditions, such as upper and lower limited current/voltage, delay time, temperature, etc.	
	Hardware protection	Foolproof protection with hardware protection level IP20	
Channels feature		Independent pairs of closed loop for constant current source and constant voltage source.	
Channels control mode		Independent control	
Data acquisition method		Kelvin connection	
Noise		<85dB	
Database		MySQL	
Communication		TCP/IP	
Data export		EXCEL、TXT、CSV、PDF、Plot/Graph	
Harddrive space requirement		500GB	
Leak current		0.005mA	
Operating system		Windows 7/8/10 64bit	
Operation and storage environment requirement			
Items		Values	
Operation environment temperature		0℃~40℃ (When the temperature is 25±10℃, the accuracy error caused by temperature change is less than50ppm /℃)	
Storage environment temperature		-10℃~50℃	
Operation environment humidity		≤70% RH(no moisture condensation)	
Storage environment humidity		≤80% RH(no moisture condensation)	
Clamps and dimensions			
Items		Values	
Tester picture (Pictures just for reference)			
Clamps pictures (Pictures just for reference)			
		Alligator	Polymer
			Ring connector
Dimension（W*D*H）(mm)		36U（19"），600*600*1780	
Aux Channels	Aux channel types	Temperature	
	Temperature range	‘-25℃~110℃	

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Aux Channels	Temperature accuracy	$\pm 1^{\circ}\text{C}$
	Temperature resolution	0.1°C
Temperature aux channels for each main channel		Up to 248
Voltage aux channels for each main channel		Up to 248
Protection settings for aux channels		Temperature up-limit, bottom-limit; Voltage up-limit, bottom-limit; ΔV of single cell.
Note: not applicable for batteries with soft-reset functional protection board		