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℃	

Aux Channels	Temperature accuracy	±1℃
	Temperature resolution	0.1℃
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 appliable for batteries with soft-reset functional protection board		

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