

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										

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	$\pm 1^{\circ}\text{C}$
	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		