





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					<b>Range 1: 10A; Range 2: 250A; Range 3: 500A; Range 4: 1000A</b>					
	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、-ΔV					
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	<ul style="list-style-type: none"> <li>• Power-off data protection</li> <li>• Off-line operation mode</li> <li>• User-defined protection conditions, such as upper and lower limited current/voltage, delay time, temperature, etc.</li> </ul>
	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	
<b>Operation and storage environment requirement</b>		
<b>Items</b>	<b>Values</b>	
Operation environment temperature	0℃~40℃ (When the temperature is 25±10℃, the accuracy error caused by temperature change is less than 50ppm /℃)	
Storage environment temperature	-10℃~50℃	
Operation environment humidity	≤70% RH(no moisture condensation)	
Storage environment humidity	≤80% RH(no moisture condensation)	
<b>Clamps and dimensions</b>		
<b>Items</b>	<b>Values</b>	
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°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.	
<p><b>Note: not applicable for batteries with soft-reset functional protection board</b></p>		