





BTS8000-5V100A Battery testing systems											
Model:	BTS8000-	5	V	100	A	Battery testing systems	SN:	CT-8008	-5V100A	-	NFA
Items						Values					
Input AC						AC 380V/208V \pm 10% / 50Hz/60Hz					
Input power						7089		W			
Resolution						AD: 16bit; DA: 16bit					
Input impedance						\geq 1M Ω					
Voltage	CV output range					0.025V~5V					
	Min discharge voltage					0V					
	Accuracy					\pm 0.05% of FS					
	Stability					\pm 0.05% of FS					
Current	Output range/channel					Range 1: 10A; Range 2: 50A; Range 3: 100A					
	Output range/CH					0.5A~100A					
	Accuracy					\pm 0.05% of FS					
	CV cut-off current					0.2A					
	Stability					\pm 0.05% of FS					
Power	Max power/CH					500		w			
	Stability					\pm 0.2% of FS					
Time	Response time					Max current response time<20ms					
	Working step time					\leq (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: 200mA					
Frequency					100Hz						
Charge	Charge modes					CC、CV、CCCV、CP、Pulse、Simulation					
	Cut-off conditions					Voltage、Current、Time、Capacity、 $-\Delta$ 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	<ul style="list-style-type: none"> ● 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	Hardware protection level IP20
Channels features	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	
Disk space	500GB	
Leak current	0.005mA	

Operating system	Windows 7/8/10 64bit		
Operation and storage environment requirement			
Items	Values		
Operation environment temperature	0°C~40°C (When the temperature is 25±10°C, the accuracy error caused by temperature change is less than 50ppm /°C)		
Storage environment temperature	-10°C~50°C		
Operation environment humidity	≤70% RH(no moisture condensation)		
Storage environment humidity	≤80% RH(no moisture condensation)		
Clamps and dimensions			
Items	Values		
Tester pictures (Pictures just for reference)			
Clamps pictures (Pictures just for reference)			
	Alligator	Polymer	Ring connector

Dimensions (W*D*H) (mm)		30U (24") , 730*600*1520
Aux channels	Aux types	Temperature, Voltage
	Temperature range	-25°C~110°C
	Temperature accuracy	±1°C
	Temperature resolution	0.1°C
	Voltage range	-5V~5V
	Voltage accuracy	± 0.1% of FS
Temperature aux channels for each main channel (Optional)		Up to 248
Voltage aux channels for each main channel (Optional)		Up to 248
Protection settings for aux channels		Temperature up-limit, bottom-limit; Voltage up-limit, bottom limit; ΔV of single cell.