

Specifications






BTS4000-5V12A Battery testing system										
Model:	BTS4000-	5	V	6	A	Battery Testing System	SN:	CT-4008T	-5V6A	-S1/164
Items						Values				
Input AC						AC 220V/110V ±10% / 50Hz				
Input power						425 W				
Resolution						AD:16bit; DA:16bit				
Input impedance						≥1MΩ				
Voltage	CV output range					25mV~5V				
	Min discharge voltage					1V for universal holder,1.5V for 2m cable				
	Accuracy					± 0.05% FS				
	Stability					± 0.05% FS				
Current	Output range/channel					Range1: 0.5mA-0.1A; Range2: 0.1A-3A; Range3: 3A-6A				
	Accuracy					± 0.05% FS				
	CV cut-off current					Range1: 0.2mA;Range2: 6mA;Range3: 12mA				
	Stability					± 0.05% FS				
Power	Output power/channel					30	W			
	Stability					± 0.1% FS				
Time	Current response time					<1ms (10% FS~90% FS)				
	Working step time					≤(365*24)h/step Timeformat-00:00:00.000(h, m, s, ms)				
Data record	Data record conditions					Min data record interval:100ms				
						Min voltage change: 10mV				
						Min current change: 0.2mA;6mA;12mA				
Frequency					10Hz					
Charge	Charge modes					CC, CV, CCCV, CP				
	Cut-off condition					Voltage, Current, Time, Capacity, Energy, -ΔV				
Discharge	Discharge modes					CC, CV, CCCV, CP, CR				
	Cut-off condition					Voltage, Current, Time, Capacity, Energy				
Pulse	Charge					CC, CP				
	Discharge					CC, CP				
	Min pulse width					500ms				
	Pulse counts					Up to 32				
	Chg and Dschg switch					Supported				
	Cut-off condition					Voltage, Time				
DCIR	Calculated DCIR values available in BTSDA									

Cycle	Max cycles	65535
	Max steps	254
	Cycle nest	3
Protection	Safety protection	<ul style="list-style-type: none"> • Power-failure data protection
		<ul style="list-style-type: none"> • Offline operation mode
		<ul style="list-style-type: none"> • User-defined protection conditions, such as upper and lower current/voltage, delay time, temperature, etc.
Channels feature		Independent pairs of closed loop for constant
Channels control mode		Independent control
Data acquisition method		Kelvin connection
Noise		<55dB
Database		MySQL
Communication		TCP/IP
Operating system		Windows 7/8/10 64bit
Data export		EXCEL, TXT, CSV, PDF, Plot/Graph
Min. disk drive		500GB
Communication port		Ethernet port
Leak Current		<5 μ A
Channels per unit		8

Operation and storage environment requirement

Items	Values
Operation environment temperature	0 $^{\circ}$ C~40 $^{\circ}$ C (When the temperature is 25 \pm 10 $^{\circ}$ C, the accuracy offset caused by temperature is less than 50ppm/ $^{\circ}$ C)
Storage environment temperature	-10 $^{\circ}$ C~50 $^{\circ}$ C
Operation environment humidity	\leq 70% RH(no moisture condensation)
Storage environment humidity	\leq 80% RH(no moisture condensation)

Clamps and dimensions

Items	Values
Tester pictures	
Clamps pictures	   

	Universal holder	Alligator	Polymer	Ring connector
	Pictures just for reference			
Dimensions(W*D*H)(mm)	3U19", 483*404*130			