

BTS-4008Q-5V12A-S1/204n Battery Testing System

Single Tester
(Image for reference only)



Dimension

483mm x 563mm x 130mm

Cable Length Selection

- ☐ 0.2m (suitable for running tests in room temperature)
- ☐ 2.0m (suitable for running tests in environmental chambers)

Clamp Selection

☐ polymer pouch-cell clamps
(connecting to pouch cells with poles on the opposite side)



☐ banana plug
(default size: Ø 4mm)



☐ alligator clips
(connecting to swagelok, metal-air battery, special mould etc.)



Full Rack
(Image for reference only)

**Holds maximum
10pcs testers
in one rack**



Dimension

950mm x 710mm x 2000mm

Electrical Performance			
Items		Values	
Channel counts		8 channels	
Input AC (for single unit)		□ 220Vac ±10% 50Hz	
		□ 110Vac ±10% 60Hz	
Input AC (for full rack - 10 units)		□ 380Vac ±10% 50Hz (3-phase-5-wire connection)	
		□ 208Vac ±10% 60Hz (3-phase-5-wire connection)	
Input power (for single unit)		870W	
Resolution		AD: 24bit; DA: 16bit	
Input impedance		≥1MΩ	
Leak Current		≤5μA	
Voltage	CV output range	25mV~5V	
	Min discharge	2.0V for cylindrical holder, 2.5V for 2m cable	
	Accuracy	± 0.02% of FS	
	Stability	± 0.04% of FS	
Current	Output range/channel	R1: 0.2mA~100mA	
		R2: 100mA~500mA	
		R3: 500mA~6A	
		R4: 6A~12A	
	Accuracy	± 0.02% of FS	
	CV cut-off current	R1: 0.1mA	
		R2: 0.5mA	
		R3: 6mA	
		R4: 12mA	
	Stability	± 0.04% of FS	
Power	Output	60	W
	Stability	± 0.04% of FS	
Time	Current	≤1ms (10%to 90% or 90%~100%)	
	Working step time	≤(365*24) hrs/step	Format: 00:00:00:00 (hr : min : s : ms)
Data record	Data record conditions	Min data record interval: 100ms	
		Min voltage change: 10mV	
		Min current change: R1: 0.1mA R2: 0.5mA R3: 6mA R4: 12mA	
	Frequency	10Hz	
Charge	Charge modes	CC / CV / CCCV / CP	
	Cut-off condition	Voltage / Current / ΔTime / Capacity / Energy / -ΔV	
Discharge	Discharge modes	CC / CP / CR / CV/ CCCV	
	Cut-off condition	Voltage / Current / ΔTime / Capacity / Energy	

Pulse	Charge	CC / CP
	Discharge	CC /CP
	Minimum Pulse	500ms
	Pulse counts	up to 32
	Continuous switching	Support continuous charge steps, or continuously discharge steps Does not support from charge to discharge switching
	Cut-off condition	Voltage / ΔTime
DCIR		Supported
Cycle	Max cycles	65535
	Max steps	254
	Cycle nest	max. 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.
IP protection level		IP 20
Channels feature		Independent pairs of closed loop for CC source and CV source
Channels control mode		Independent control
Data acquisition method		Kelvin connection (4-wire)
Noise		<45dB
Database		MySQL
Communicatin		TCP/IP
Operating system		Windows 7/8/10 64bit
Data export		EXCEL / TXT
Disk drive		500GB
Communication port		Ethernet port
Operation and storage environment requirement		
Items		Values
Operationenvironment temperature		0~40℃ (Limiting temperature) 25±10℃ (Guaranteed accuracy of 0.005% of FS/℃)
Storage environmenttemperature		-10℃~50℃
Operation environment humidity		≤70% RH (no moisture condensation)
Storage environment humidity		≤80% RH (no moisture condensation)