

BTS-6001A-5V2000A-H Battery Testing System

Tester
(Image for reference only)



Dimension

600*660*1350 (mm)

Weight

Around 169KG

Cable Length By Default

3.0m (connecting to battery rack or insert to environmental chambers)

Clamp Selection
(Image for reference only)

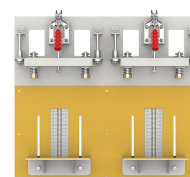
☐ Polymer pouch-cell clamps



☐ Cylindrical-cell holder
 - diameter: Ø ____ mm
 - height: ____ mm
 - poles on same / opposite side



☐ Prismatic-cell holder
 - size: W__*D__*H__ (mm)
 - poles on same / opposite side
 - need technical sketch



Auxiliary Unit Add-on (Optional)

☐ (8CH voltage + 8CH Temperature) per unit

CAN Box Unit Add-on (Optional)

☐ CAN, RS485, BMS communication,
with DBC configuration function

Channel Information		
Items		Values
Channel counts		1 channel
Channel Feature		CC source and CV source dual closed loop control
Channel ccontrol mode		Independent control
Channel parallel connection		Support max. 3 channels parallel mode (Pulse and SIM tests will be disabled in channels parallel mode.)
Power Grid Requirement		
Items		Values
Input power		3Phase 380Vac or 208Vac $\pm 15\%$ 50/60 ± 5 Hz
Power factor		$\geq 99\%$ (Full load)
THDi		$\leq 5\%$ (Full load)
Input resistance		$\geq 1\text{M}\Omega$
Input power		14.3kW
Input current		21.7A/phase for 380V system 39.7A/phase for 208V system
Overall system efficiency(Max)		75%
Noise		$\leq 65\text{dB}$
Voltage and current sampling		Four-wire Kelvin connection (same port for charging and discharging)
Power control module type		MOSFET
Input power wiring method		Three-phase five-wire (3W+N+PE)
Power input protection		Anti-surge, anti-silos, anti over or under frequency, anti over or under voltage, anti phase absence, etc.
Function & Performance		
Items		Values
Voltage	Output range	0V~5V
	Min discharge V	1.5V
	Accuracy	$\pm 0.05\%$ of FS
	Resolution	24bit
Current	Output range	Range 1: 75A Range 2: 150A Range 3: 300A Range 4: 2000A
	Accuracy	$\pm 0.05\%$ of FS
	CV cut-off current	R1: 75mA R2: 150mA R3: 300mA R4: 2000mA
	Resolution	24bit

Power	Output power / CH	10kW
	Whole machine output power	10kW
Time	Current response	≤3ms
	Current conversion	≤6ms
	Min. step time	0.1s
Charge & Discharge Mode	Charge modes	CCC / CVC / CC-CVC / CPC
	Discharge modes	CCD / CVD / CPD / CRD
	Cut-off condition	Voltage / Current / ΔTime / Capacity / -ΔV
Simulation	Charge	Current, Power
	Discharge	Current, Power
	Switch	Support continuous switching between charge and discharge
	Cut-off condition	Time, step line
	Steps file lines	1,000,000
Pulse Mode	Charge	Current ,power
	Discharge	Current ,power
	Min pulse width	50ms
	Pulse counts	Up to 32
	Charge & discharge switch	Supported
	Cut-off condition	Voltage, ΔTime
DCIR		DCIR by calculation
Safety Protection	Software Protection	Power-off data protection
		Offline mode function
		voltage lower limit ,voltage upper limit ,current lower limit , current upper limit ,delay time, etc.
	Hardware Protection	Anti-reverse connection, over-voltage, over-current, over-temperature, etc.

Data Management and Analysis		
Items		Values
Step setting method		Form editing
Data report	Recording Conditions	Minimum time interval: 10ms When connected with AUX channel: 100ms
		Minimum voltage interval: 10mV
		Minimum current interval: R1: 150mA R2: 300mA R3: 600mA R4: 4000mA
	Recording frequency	100Hz (when connected with AUX channel: 10Hz)
Database		MySQL database
Data export		EXCEL / TXT / CSV / PDF / Plot / Graph
Curve type		Templates available, customization supported
Bar code scanning		Support bar-code scanning function
		Management and traceability of historical data
Communication		
Items		Values
Host computer communication		TCP/IP protocol
Communication port		Ethernet port
Tester communication baud rate		1M
Host communication baud rate		10M~100M adaptive
Communication setup		Set up a LAN (local area network) through switches and routers
Operating system		Windows 7/8/10 64bit
Operation and storage environment requirement		
Items		Values
Operationenvironment temperature		-10~40°C (Limiting temperature) 25±10°C (Guaranteed accuracy of 0.005% of FS/°C)
Storage environmenttemperature		-20~50°C
Operation environment humidity		≤70% RH (no moisture condensation)
Storage environment humidity		≤80% RH (no moisture condensation)

Auxiliary Unit Add-on (Optional)		
Items		Values
Description		It is used to monitor the temperature of the battery surface or the tabs during the test. The aux test data can be bound with the main voltage and current data. At the same time, the measured temperature can be used as the control condition and protection condition of the test profiles.
Temp. Aux channels	Temp. range	Thermocouple: -70~260°C
	Temp. accuracy	±1°C
	Temp. resolution	0.1°C
Voltage Aux channels	Voltage range	0~5V
	Voltage accuracy	±0.05% of FS
	Voltage resolution	0.1mV