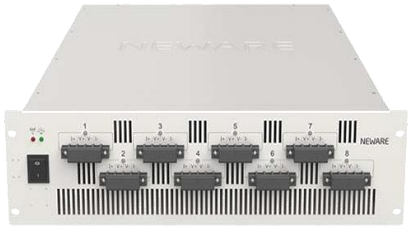
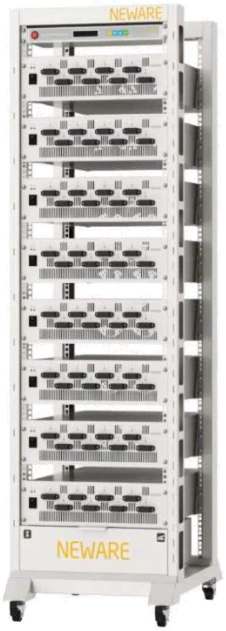
BTS-4008-5V20A-A Battery Testing System

Single Tester **(Image for reference only)**		
Dimension	483mm x 690mm x 130mm	
Cable Length Selection	☐ 0.5m (suitable for running tests in room temperature on trays)	
	☐ 3.0m (suitable for running tests in environmental chambers)	
Clamp Selection	☐ polymer pouch-cell clamps (connecting to pouch cells with poles on the opposite side)	
	☐ ring connector (connecting to prismatic cells etc.) - default size: inner ∅ 6mm	
	☐ alligator clips (connecting to swagelok, metal-air battery, special mould etc.)	
Full Rack **(Image for reference only)** **Holds maximum** **8 pcs testers** **in one rack**		
Dimension	660mm x 760mm x 1950mm	

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)		1420W
Resolution		AD：24bit；DA：16bit
Input impedance		≥1MΩ
Leak Current		≤5μA
Voltage	**CV output range**	25mV~5V
	Min discharge	2.5V
	Accuracy	± 0.1% of FS
	Stability	± 0.1% of FS
Current	**Output**	0.1A~20A
	Accuracy	± 0.1% of FS
	CV cut-off current	0.1A
	Stability	± 0.1% of FS
Power	**Output**	100 | W
	Stability	± 0.2% of FS
Time	**Current**	≤20ms (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：40mA
	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		<85dB
Database		MySQL
Communicatin		TCP/IP
Operating system		Windows 7/8/10 64bit
Data export		EXCEL / TXT / CSV / PDF / Plot / Graph
Disk drive		500GB
Communication port		Ethernet port

Operation and storage environment requirement

Items	Values
Operationenvironment temperature	0~40°C (Limiting temperature) 25±10°C (Guaranteed accuracy of 0.05% of FS/°C)
Storage environmenttemperature	-10℃~50℃
Operation environment humidity	≤70% RH (no moisture condensation)
Storage environment humidity	≤80% RH (no moisture condensation)