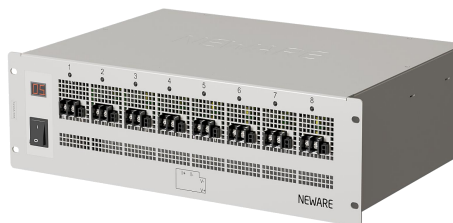


## BTS-4008Q-5V20A-SR Battery Testing System

Single Tester  
(Image for reference only)



Dimension

483mm x 332mm 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



☐ ring connector  
(connecting to prismatic cells etc.)  
- default size: inner Ø 6mm

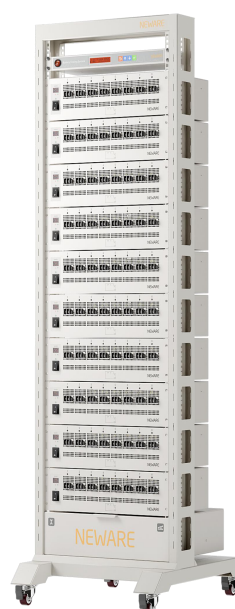


☐ alligator clips  
(connecting to swagelok, metal-air battery, special mould etc.)



Full Rack  
(Image for reference only)

Holds maximum  
10 pcs testers  
in one rack



Dimension

660mm x 760mm x 1950mm

| Electrical Performance              |                        |   |   |
|-------------------------------------|------------------------|---|---|
| Items                               |                        | Values  |   |
| Channel counts                      |                        | 8 channels  |   |
| Input AC (for single unit)          |                        | <input type="checkbox"/> 220Vac $\pm 10\%$   50Hz                             |   |
|                                     |                        | <input type="checkbox"/> 110Vac $\pm 10\%$   60Hz                             |   |
| Input AC (for full rack - 10 units) |                        | <input type="checkbox"/> 380Vac $\pm 10\%$   50Hz (3-phase-5-wire connection) |   |
|                                     |                        | <input type="checkbox"/> 208Vac $\pm 10\%$   60Hz (3-phase-5-wire connection) |   |
| Input power (for single unit)       |                        | 1200W   |   |
| Resolution                          |                        | AD: 24bit; DA: 16bit  |   |
| Input impedance                     |                        | $\geq 100M\Omega$   |   |
| System efficiency                   |                        | $> 65\%$  |   |
| Voltage                             | CV output range        | 25mV~5V   |   |
|                                     | Min discharge          | 1.5V (while connecting with 3.0m cable)                                       |   |
|                                     | Accuracy               | $\pm 0.05\%$ of FS  |   |
|                                     | Stability              | $\pm 0.1\%$ of FS   |   |
| Current                             | Output range/channel   | R1: 1A  |   |
|                                     |                        | R2: 6A  |   |
|                                     |                        | R3: 12A   |   |
|                                     |                        | R4: 20A   |   |
|                                     | Accuracy               | $\pm 0.05\%$ of FS  |   |
|                                     | CV cut-off current     | R1: 0.2mA   |   |
|                                     |                        | R2: 1.2mA   |   |
|                                     |                        | R3: 2.4mA   |   |
|                                     |                        | R4: 4mA   |   |
|                                     | Stability              | $\pm 0.1\%$ of FS   |   |
| Power                               | Output                 | 100   | W   |
|                                     | Stability              | $\pm 0.2\%$ of FS   |   |
| Time                                | Current response       | $\leq 1ms$ (10%to 90% or 90%~100%)  |   |
|                                     | Current revers time    | $\leq 10ms$ (10%to 90% or 90%~100%)   |   |
|                                     | Working step time      | $\leq (365*24)$ hrs/step  | Format: 00:00:00:00 ( hr : min : s : ms ) |
| Data record                         | Data record conditions | Min data record interval: 100ms   |   |
|                                     |                        | Min voltage change: 5mV   |   |
|                                     |                        | Min current change: R1: 0.2mA   R2: 1.2mA   R3: 2.4mA   R4: 4mA               |   |
|                                     | Frequency              | 10Hz  |   |
| Charge                              | Charge modes           | CC / CV / CCCV / CP   |   |
|                                     | Cut-off condition      | Voltage / Current / $\Delta$ Time / Capacity / Energy / $-\Delta V$           |   |
| Discharge                           | Discharge modes        | CC / CP / CR / CV/ CCCV   |   |
|                                     | Cut-off condition      | Voltage / Current / $\Delta$ Time / Capacity / Energy                         |   |

|   |                      |   |
|---|----------------------|---|
| Pulse   | Charge               | CC / CP   |
|   | Discharge            | CC /CP  |
|   | Minimum Pulse        | 100ms   |
|   | Pulse counts         | up to 32  |
|   | Continuous switching | Support continuous charge steps, or continuously discharge steps<br>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   |                      | <75dB (measured in 1.0m distance)   |
| 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℃ (Limiting temperature)<br>25±10℃ (Guaranteed accuracy of 0.05% of FS/℃)   |
| Storage environmenttemperature                |                      | -10℃~50℃  |
| Operation environment humidity                |                      | ≤70% RH (no moisture condensation)  |
| Storage environment humidity                  |                      | ≤80% RH (no moisture condensation)  |