# BTS-9008-5V6A-SMB Battery Testing System

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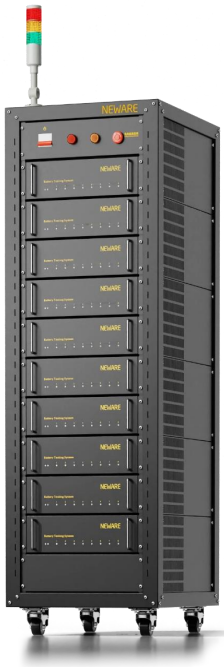
|---|---|---|
| **Single Tester**<br>**(Image for reference only)** |  | |
| **Dimension** | 483mm x 590mm x 130mm | |
| **Cable Length Selection** | ☐ 0.2m (suitable for running tests in room temperature) | |
| | ☐ 2.0m (suitable for running tests in environmental chambers) | |
| **Clamp Selection** | ☐ polymer pouch-cell clamps (connecting to pouch cells with poles on the same side) |  |
| | ☐ polymer pouch-cell clamps (connecting to pouch cells with poles on the opposite side) |  |
| | ☐ alligator clips (connecting to swagelok, metal-air battery, special mould etc.) |  |
| **Full Rack**<br>**(Image for reference only)**<br><br>**Holds maximum**<br>**10pcs testers**<br>**in one rack** |  | |
| **Dimension** | 607mm x 800mm x 1935mm | |

| 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)** | | 530W | |
| **Resolution** | | AD：16bit；DA：16bit | |
| **Input impedance** | | ≥1000MΩ | |
| **Leak Current** | | ≤100μA | |
| **Voltage** | **CV output range** | 0~5V | |
| | **Min discharge voltage** | ☐Default: 0.7V for2m cable:<br>☐Upgrade version 9.07 to -5V | |
| | **Accuracy** | ± 0.02% of FS | |
| | **Stability** | ± 0.01% of FS | |
| **Current** | **Output range/channel** | R1: 0.1μA~195μA | |
| | | R2: 195μA~6.5mA | |
| | | R3: 6.5mA~195mA | |
| | | R4: 195mA~6500mA | |
| | **Accuracy** | ± 0.02% of FS | |
| | **CV cut-off current** | R1: ± 39nA | |
| | | R2: ± 1.3μA | |
| | | R3: ± 39μA | |
| | | R4: ± 1.3mA | |
| | **Stability** | ± 0.01% of FS | |
| **Power** | **Output** | 32.5 W | |
| | **Stability** | ± 0.01% of FS | |
| **Time** | **Current** | ≤100μs (10%to 90% or 90%~100%) | |
| | **Working step time** | 10ms ≤ x ≤ (365*24) hrs/step | Format: 00:00:00:00 ( hr : min : s : |
| **Data record** | **Data record conditions** | Min data record interval: 1ms | |
| | | Min voltage change：1mV | |
| | | Min current change：100nA | |
| | **Frequency** | 1000Hz | |
| **Charge** | **Charge modes** | CC / CV / CCCV / CP | |
| | **Cut-off condition** | Voltage / Current / ΔTime / Capacity / Energy / Power | |
| **Discharge** | **Discharge modes** | CC / CP / CR / CV/ CCCV | |
| | **Cut-off condition** | Voltage / Current / ΔTime / Capacity | |

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|---|---|---|
| **DCIR** | | Supported |
| **Minimum pulse width** | | 10ms |
| **Cycle** | **Max cycles** | 65535 |
| | **Max steps** | 255 |
| | **Cycle nest** | max. 4 |
| **Protection** | **Safety protection** | ● Power-off data protection |
| | | ● Off-line operation mode |
| | | ● User-defined protection conditions, such as upper and lower limited current/voltage, capacity upper limit protection, voltage/current voltage fluctuation protection , etc. |
| **Data acquisition method** | | Kelvin connection (4-wire) |
| **Database** | | MySQL |
| **Communicatin** | | TCP/IP (100M Ethernet) |
| **Data export** | | EXCEL / TXT |
| **Communication port** | | Ethernet port |
| **Operating system** | | Windows 10 |
| **SMBus** | **Hardware** | Compatible with SMBUS, I2C communication protocols |
| | **Software compatibility** | Compatible with the standard specification field instructions defined in Smart Battery Data Specification Revision 1.1 |
| | **Reading frequency** | 1S |
| | **MES data upload** | Supported |

## Operation and storage environment requirement

| Items | Values |
|---|---|
| **Operationenvironment** | 25±20°C (Limiting temperature), 25±5°C (Guaranteed accuracy) |
| **Storage environmenttemperature** | 0~60°C |
| **Operation environment humidity** | ≤70% RH (no moisture condensation) |
| **Storage environment humidity** | ≤80% RH (no moisture condensation) |