# NEWARE Specifications

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| IGBT7000-100V400A Battery testing system | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Model: | IGBT7000- | 100 | V | 400 | A | Battery testing system | SN: | CE-7001 | -100V400A |

| Items | | Values | |
|---|---|---|---|
| AC input voltage | | AC 380V ±10%/50Hz | |
| Output power | | 40 | KW |
| Input current | | 68 | A/Phase |
| Input power | | 44 | KW |
| Voltage | Constant voltage | 10V~100V | |
| | Min discharge voltage | 10 | V |
| | Accuracy | ± 0.1% of FS | |
| | Stability | ± 0.1% of FS | |
| Current | Output range | 2A~400A | |
| | Accuracy | ± 0.1% of FS | |
| | CV cut-off current | 2A | |
| | Stability | ± 0.1% of FS | |
| Power | Max output power/CH | 40KW | |
| | Stability | ±0.2% of FS | |
| Response time | Current response time | Maximum 10ms | |
| | Step response time | ≤(365*24)hour/step,Time format: 00:00:00.000(h,m,s,ms) | |
| Data | Data record interval | Minimum record interval: 100ms | |
| | | Minimum voltage record interval: 0.2V | |
| | | Minimum current record interval: 0.8A | |
| | Max frequency | 10Hz | |
| Charge | Charge mode | Constant current, Constant voltage, Constant current and voltage, Constant power | |
| | Cut-off | Main channel: Voltage, Current, ΔT, ΔCapacity, ΔV | |
| Discharge | Discharge mode | Constant current, Constant power, Constant resistance | |
| | Cut-off | Main channel: Voltage, Current, ΔT, ΔCapacity | |
| SIM | Charge mode | Current, Voltage | |
| | Discharge mode | Current, Voltage | |
| | Cut-off | Time, Command line number | |
| | Charge and discharge switch | Yes | |
| | Max SIM command lines | 1,000,000 | |
| Cycle | Cycles | Max 65535 | |
| | Steps for each cycle | Max 254 | |
| | Nest for each cycle | Max 3 | |
| Protection | Software 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. | |
| Channels feature | | Independent pairs of closed loop for constant current source and constant voltage source. | |
| Energy saving | | Discharge energy can be returned to power grid | |
| Channels working mode | | Independent control | |
| Parallel mode | | Yes | |

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|---|---|
| Noise | <75dB |
| Database | MySql |
| Communication protocol | TCP/IP |
| Data export | EXCEL、TXT、CSV、PDF、Plot/Graph |
| Harddrive requirement | 500GB |
| Operating system | Windows 7/8/10 64 bit |
| Communication port | Ethernet port |
| **Items** | **Values** |
| Channel numbers in one set | 1 |
| Dimension(W*D*H)(mm) | 1350×1000×1750 |
| Weight(kg) | 650 |
| **Operation and storage environment requirement** | |
| **Items** | **Values** |
| Operation environment temperature | 0℃~40℃ (When the temperature is 25±10℃, the accuracy bias caused by temperature change is less than 50ppm /℃) |
| Storage environment temperature | -10℃~50℃ |
| Operation environment humidity | ≤70% RH(no moisture condensation) |
| Storage environment humidity | ≤80% RH(no moisture condensation) |
| Equipment picture (Pictures just for reference) |  |

| | | | | |
|---|---|---|---|---|
| Clamps pictures (Pictures just for reference) | |  |  |  |
| Clamps types | | Alligator | Polymer | Ring connector |
| Aux channels (Optional) | Aux types | Temperature, Voltage | | |
| | Temperature range | -25℃~110℃ | | |
| | Temperature accuracy | ±1℃ | | |
| | Temperature resolution | 0.1℃ | | |
| | Voltage range | -5V~5V | | |
| | Voltage accuracy | ± 0.1% of FS | | |
| Temperature aux channels for each main channel(Optional) | | Up to 248 | | |
| Voltage aux channels for each main channel(Optional) | | Up to 248 | | |
| Protection settings for aux channels | | Temperature up-limit, bottom-limit; Voltage up-limit, bottom-limit; ΔV of single cell. | | |