

5V5A Technical Specification

一、BTS-5V5A

| Description | | Specification |
|----------------------|---|---|
| AC Input | | AC 220V +10% / -20%, 50Hz; |
| Resolution | | AD: 16bit; DA: 16bit |
| Impedance input | | $\geq 500M\Omega$ |
| Input power | | 250 w |
| Channel Feature | | Independent pairs of closed loops for constant current source and constant voltage source |
| Channel control mode | | Independent control |
| Voltage | Measuring Range | Charge: 0.7V~5V; Discharge: 0.7V~5V |
| | Discharge Min Voltage | 0.7 V(0.5M wire length) |
| | Accuracy | $\pm 0.02\%$ of FS |
| | Stability | $\pm 0.005\%$ of FS |
| Current | Measuring Range | Range1: 0.1uA---150uA |
| | | Range2: 140uA---5mA |
| | | Range3: 4.5mA---150mA |
| | | Range4: 140mA---5A |
| | Accuracy | $\pm 0.02\%$ of FS |
| | | Range1: $\pm 30nA$ |
| | | Range2: $\pm 1uA$ |
| | | Range3: $\pm 30uA$ |
| Range4: $\pm 1mA$ | | |
| Stability | $\pm 0.005\%$ of FS | |
| Power | Max Output Power Per Channel | 25W |
| | Stability | $\pm 0.01\%$ of FS |
| Time | Rise Time | $\leq 100\mu s$ (10% to 90% or 90% to 10%); |
| | Step Time Range | $\geq 10ms$ |
| Data acquisition | Intervals | Time Δt : $\geq 1ms$ |
| | | Voltage ΔU : $\geq 1mV$ |
| | | Current ΔI : $\geq 100nA$ |
| Frequency | 1000Hz(Continuous charging and discharging mode) /Individual pulse recording (GSM pulse mode) | |
| Charge | Charge Mode | CC, CCCV, CV, CP, CR |
| | End Conditions | Voltage, Current, Δt , Capacity, Energy, Power |
| Discharge | Discharge Mode | CC, CP, CR, Pulse |
| | End Conditions | Voltage, Current, Δt , Capacity |
| Pulse | Charge | CC |
| | Discharge | CC |
| | Min. pulse width | 400 μs |
| | Pulses counts | Up to 16 changes in each pulse |
| | End conditions | Voltage, Δt |

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| Description | | Specification |
|-------------------------|--|---|
| DCIR | Can be calculated by software | |
| Cycle | Max cycles | 1~65535 |
| | Max steps in each cycle | 255 |
| | Max cycle nest | 4 |
| 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.; |
| Data acquisition method | Kelvin connection | |
| Database | MySQL | |
| Communication | TCP/IP(100M Ethernet) | |
| Data export | EXCEL2003,2010、TXT | |
| Communication Interface | Ethernet port | |
| Channels | 4 | |
| Dimensions | W*D*H: 443*615*125 (mm) | |
| Clamps | 204 Air-plug, Polymer or alligator available | |
| Operating system | Windows 7 64Bit | |

Operation and storage environment requirement

| Description | Specification |
|-----------------------------------|---|
| Operation environment temperature | 0℃ ~40℃ (When the temperature is 25 ± 10℃ , the accuracy error caused by temperature change is less than50ppm /℃) |
| Storage environment temperature | 0~60℃ |
| Operation environment humidity | ≤70% RH(no moisture condensation) |
| Storage environment humidity | ≤80% RH(no moisture condensation) |



Pictures are only for reference