

RRC-SMB-UBC-DIS

Standard battery conditioner
for smart batteries

P/N: 110063



Features:

- Ensures batteries are discharge to 30% state of charge (or less) for transportation.
- Places batteries in very low power mode called "ship mode" to limit self-discharge.
- For the standard battery form factors RRC20xx or smart batteries with a similar footprint
- Simple operation – Plug and Play
- Automatic recognition and calibration of smart battery learned capacity
- External power supply for worldwide use
- Country specific AC input cables available

Applications:

Standard conditioning/discharging station for mobile devices used in medical, industrial and consumer markets

Specification

| Input | | |
|----------------------------------|---|-------------------------------------|
| Voltage range | 19.00 – 26.00VDC | |
| Current | 3.40A max. | |
| Power | 65.00W | |
| Protection | Over current (fuse protected), under voltage | |
| Output | | |
| Voltage range | 0 - 17.40VDC | |
| Current range | 0 - 4.80A | |
| Voltage tolerance ⁽¹⁾ | ±1% max. | |
| Current tolerance ⁽¹⁾ | ±10% max. @1.00A, ±3% max. @4.00A | |
| Charge power | 60.00W max. | |
| Protection | Short circuit, over temperature shutdown, input-/output over current | |
| Environmental | | |
| | Operation: | Storage: |
| Ambient Temperature | 0°C to 40°C | -30°C to 80°C |
| Pressure and Altitude | 1060hPa to 533hPa -382m to 5000m | 1060hPa to 533hPa -382m to 5000m |
| Humidity (non-condensing) | 8% to 90% r.H. | 5% to 95% r.H. |
| General | | |
| Efficiency | ~95% at 100% load | |
| Indicator | Multi-color LED (green, red, orange) | |
| Battery types | Standard battery form factors RRC20x or smart batteries with a similar footprint | |
| Green procurement | RoHS 2011/65/EU + 2015/863 REACH 1907/2006 WEEE 2012/19/EU Chinese RoHS | |
| Cooling | convection cooled | |
| LED Indications | | |
| One time Red/Orange/Green | Self-test: Charger is ready for use. | |
| Green/Red blinking | Charger identifies inserted battery. | |
| Orange | Progress indication – The battery is being charged. | |
| Orange blinking | Progress indication – The battery is being discharged. | |
| Green | Success indication - The battery successfully charged/discharged to transport State of Charge and is set into ship mode. | |
| Red | Error indication - The battery was not successfully charged/discharged to transport State of Charge or is not set into ship mode. | |
| Red blinking | The temperature of the battery is too low or too high. | |
| Charger Mechanical Details | | |
| Housing dimensions (LxWxH) | 151 x 90 x 43mm | |
| Weight | 198g (excluding power supply) | |
| Safety & EMC | | |
| | In combination with included external AC/DC power supply | |
| Regulatory approvals | Europe | EN62368-1 (CE) |
| | International | IEC62368-1 (CB) |
| Electromagnetic Emissions | Europe | EN55011, EN55032, level B |
| | USA | FCC15 class B |
| Electromagnetic Immunity | ESD immunity | EN/IEC61000-4-2 |
| | Electromagnetic field immunity | EN/IEC61000-4-3 |
| | EFT / Burst | EN/IEC61000-4-4 |
| | Surge | EN/IEC61000-4-5 |
| | Conducted Immunity | EN/IEC61000-4-6 |
| | Magnetic Fields | EN/IEC61000-4-8 |
| | Voltage dips, short instrumentations & voltage variations | EN/IEC61000-4-11 |
| | Immunity characteristics | EN55024 |

Specification external AC/DC power supply

| Input | | |
|--|---|-------------|
| Voltage range | 100.00 – 240.00VAC ±10%, 50-60Hz | |
| Current | 1.70A max. | |
| Stand by power | < 0.21W @ no load | |
| Output | | |
| Voltage range | 19.00VDC ± 10% | |
| Power | 65.00W max. | |
| Current range | 3.40A max. | |
| Protection | Short circuit, over voltage, over current, over temperature | |
| General | | |
| Efficiency | California's Energy Efficiency Level VI | |
| Ripple & Noise | 300mV (p-p) | |
| Power Supply Mechanical Details | | |
| Standard output connector | DC barrel jack, 5.5 x 2.5mm | |
| Housing dimensions (LxWxH) | 95 x 50 x 25.4mm | |
| Weight | 270g | |
| Cable length | 1600mm | |
| Regulatory Approvals | | |
| Approvals | Europe | CE |
| | International | CB |
| | USA & Canada | cULus |
| | Australia & New Zealand | RCM |
| | Russia (Customs Union) | EAC |
| | Korea | KC |
| | China | CCC |
| | Japan | PSE |
| | India | BIS |
| | Taiwan | BSMI |
| | Mexico | NOM |
| | Argentina | IRAM |
| | South Africa | SABS |
| | Singapore | Safety Mark |
| | United Kingdom | UKCA |
| | Morocco | CMIM |