

RRC-SMB-UBC-M

Medical standard battery charger
for smart batteries

P/N: 110115



Features:

- 60W single bay fast charger
- For the standard battery form factors RRC20xx or smart batteries with a similar footprint
- Optimized charging process for RRC batteries:
 - Longer cycle life
 - Faster charging
- Simple operation – Plug and Play
- Automatic recognition and calibration of smart battery learned capacity
- External medical power supply for worldwide use
- Country specific AC input cables available

Applications:

Standard charging station for mobile devices used in medical market



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% max. | |
| Current tolerance | ±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 | -20°C to 80°C |
| Pressure and Altitude | 1060hPa to 540hPa -382m to 5000m | 1060hPa to 540hPa -382m to 5000m |
| Humidity (non-condensing) | 20 to 80% r.H. | 10 to 90% r.H. |
| General | | |
| Efficiency | ~95% at 100% load | |
| Indicator | Multi-color LED (green, red, orange) | |
| Battery types | Standard battery form factors RRC20xx or smart batteries with a similar footprint | |
| Green procurement | RoHS 2011/65/EU + 2015/863/EU 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. | |
| Red/Green blinking | Battery recognition and initialization. | |
| Orange blinking | The battery is currently being calibrated. | |
| Orange light | The inserted battery is of the correct type and is currently being charged. | |
| Green light | The battery is charged and can be removed for use. | |
| Red blinking | The battery is too hot or too cold to be charged without damage. If the battery is too cold it will be charged as soon as it has warmed up sufficiently. If the battery is too hot it should be removed to cool down. | |
| Red light | The battery is damaged or it is a conventional battery which cannot be recharged. | |
| 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 medical AC/DC power supply

| Input | | |
|---------------------------------|---|--|
| Voltage range | 100.00 to 240.00VAC, 50 to 60 Hz | |
| Current | 1.60A max. | |
| Stand by power | < 0.21W @ no load | |
| Output | | |
| Voltage range | 19.00VDC ± 5%; Ripple < 190mVpk-pk | |
| Power | 65.17W max. | |
| Current range | 3.43A | |
| Protection | Short circuit, over-voltage, over-current | |
| General | | |
| Efficiency | California's Energy Efficiency Level VI | |
| Ripple & Noise | 190mV (p-p) | |
| Power Supply Mechanical Details | | |
| Standard output connector | DC barrel jack, 5.5 x 2.5 x 11mm | |
| Housing dimensions (LxWxH) | 119 x 60 x 36mm, without cables and connectors | |
| Weight | 310g, without input cable | |
| Cable length | 1500mm ±30mm | |
| Regulatory Approvals | | |
| Safety | ITE Medical | CE, PSE cULus, T-mark, EN / IEC60601-1 |
| EMI | Europe USA & Canada United Kingdom Morocco | CE FCC 15 class B UKCA CMIM |

Recommended Accessories

| Type | Product | P/N | Application |
|----------------|------------|--------|--|
| 2-pol AC-Cable | US-Version | 201497 | Country specific power cable for medical battery chargers and medical power supplies from RRC. |
| | EU-Version | 201496 | |



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