



50 Watt SMBUS Desktop Mini Battery Charger for Smart Batteries

Features:

- Single bay charger
- For the standard battery form factors 2040, 2040-2, 2054, 2057 or smart batteries with a similar footprint
- Optimized charging process for RRC batteries:
 - Longer cycle life
 - Faster charging
- Simple operation – Plug and Play
- External power supply for worldwide use
- Country specific AC input cables available

Applications:

- Standard charging station for mobile devices used in medical, industrial and consumer markets

Specification RRC-SMB-MBC

| Input | |
|---------|-------------|
| Voltage | 19 - 26VDC |
| Current | 2800mA max. |
| Power | 50W |

| Output | |
|----------------------------------|--|
| Voltage range | 0 - 17.4VDC |
| Current range | 0 – 4.8A |
| Voltage tolerance ⁽¹⁾ | ±1% max. |
| Current tolerance ⁽¹⁾ | ±10% max. @1A, ±3% max. @4A |
| Protection | Short circuit Over temperature shutdown Input-/output over current |

| Environmental | |
|---------------------|--|
| Cooling | convection cooled |
| Temperature | Operating: 0°C to 40°C Non-operating: -10°C to 70°C |
| Pressure & Altitude | Operating: 1060hPa to 795hPa -382m to 2000m Non-operating: 1060hPa to 572hPa -382m to 4570m |
| Humidity | 5% to 95% r.H., non-condensing |

| General | |
|---------------------------|--|
| Efficiency ⁽²⁾ | ~95% at 100% load |
| Indicator | Multi-color LED (green, red, orange) |
| Battery types | Standard battery form factors 2040, 2040-2, 2054, 2057 or smart batteries with a similar footprint |
| Green procurement | RoHS 2011/65/EU WEEE 2012/19/EU Chinese RoHS |

| LED Indications | |
|---------------------------|---|
| One time Red/Orange/Green | Selftest: Charger is ready for use. |
| Red/Green blinking | Battery recognition and initialization. |
| 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) | 120 x 64 x 43mm |
| Weight | 110g (excluding power supply) |

Notes:

1. Total regulation tolerance includes initial set accuracy, line and load regulation
2. Power losses of input and output cables are not considered here.

Technical Data Sheet

RRC-SMB-MBC – RRC SMBUS Mini Battery Charger



| Safety & EMC | | In combination with specified external AC/DC power supply |
|---------------------------|---|---|
| Regulatory approvals | Europe | CE |
| Electromagnetic Emissions | Europe | EN55011, EN55022, 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 - 240VAC |
| Current | 1.7A max. |
| Stand by power | No load < 0.5W @ 230 VAC |

| Output | |
|---------------|---|
| Voltage range | 19VDC |
| Power | 65W max. |
| Current range | 3.4A |
| Protection | Over voltage, over current Short circuit |

| Environmental | |
|---------------|--------------------------------|
| Temperature | Operating: 0°C to 40°C |
| | Non-operating -10°C to 70°C |

| General | |
|----------------|---|
| Efficiency | California's Energy Efficiency Level VI |
| Ripple & Noise | 240mV (p-p) |

| Power Supply Mechanical Details | |
|---------------------------------|------------------|
| Standard output connector | DC barrel jack |
| Housing dimensions (LxWxH) | 95 x 51 x 25.4mm |
| Weight | 270g |

| Safety & EMC & Approvals | | |
|--------------------------|------------------------|-------|
| Approvals | Europe | CE |
| | International | CB |
| | USA/Canada | cULus |
| | Australia | RCM |
| | Russia (Customs Union) | EAC |
| | Korea | KC |
| | China | CCC |
| | Japan | PSE |
| | India | BIS |

| Germany/Headquarters | USA | Hong Kong | China |
|---|---|---|---|
| RRC power solutions GmbH Technologiepark 1 D-66424 Homburg / Saar | RRC power solutions Inc. 18340 Yorba Linda Blvd., Suite 107-437 Yorba Linda, CA 92886-4104 | RRC power solutions Ltd. S-V,6/F, Valiant Industrial Centre 2-12 Au Pui Wan Street Fo Tan, N.T., Hong Kong | RRC power solutions Ltd. Room 520, Yuanlin Building, Aiguo Road No. 3066, Luohu District, Shenzhen 518021 |
| Tel.: +49 6841 98090 Fax: +49 6841 9809280 Email: sales@rrc-ps.de Web: www.rrc-ps.de | Tel.: +1 714 777 3604 Fax: +1 714 777 3658 Email: usa@rrc-ps.com Web: www.rrc-ps.com | Tel.: +852 2376 0106 Fax: +852 2375 0107 Email: hkrrc@rrc-ps.cn Web: www.rrc-ps.com | Tel.: +86 755 8374 1908 Fax: +86 755 8374 1861 Email: hkrrc@rrc-ps.cn Web: www.rrc-ps.com |

Компания «Life Electronics» занимается поставками электронных компонентов импортного и отечественного производства от производителей и со складов крупных дистрибьюторов Европы, Америки и Азии.

С конца 2013 года компания активно расширяет линейку поставок компонентов по направлению коаксиальный кабель, кварцевые генераторы и конденсаторы (керамические, пленочные, электролитические), за счёт заключения дистрибьюторских договоров

Мы предлагаем:

- Конкурентоспособные цены и скидки постоянным клиентам.
- Специальные условия для постоянных клиентов.
- Подбор аналогов.
- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
- Приемлемые сроки поставки, возможна ускоренная поставка.
- Доставку товара в любую точку России и стран СНГ.
- Комплексную поставку.
- Работу по проектам и поставку образцов.
- Формирование склада под заказчика.
- Сертификаты соответствия на поставляемую продукцию (по желанию клиента).
- Тестирование поставляемой продукции.
- Поставку компонентов, требующих военную и космическую приемку.
- Входной контроль качества.
- Наличие сертификата ISO.

В составе нашей компании организован Конструкторский отдел, призванный помогать разработчикам, и инженерам.

Конструкторский отдел помогает осуществить:

- Регистрацию проекта у производителя компонентов.
- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
- Изготовление тестовой платы монтаж и пусконаладочные работы.



Тел: +7 (812) 336 43 04 (многоканальный)

Email: org@lifeelectronics.ru