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RRC2057

Standard Battery Pack Li-Ion
7.20V / 6.90Ah / 49.70Wh

Datasheet



 **RRC**
SETTING STANDARDS
IN POWER SOLUTIONS



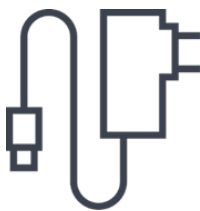
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The RRC2057 is in use in more than 50 different industries in a variety of applications, such as blood analyzers, defibrillators, multi meters, and many more.

In total, we count more than 4000 design-ins for our standard batteries, which is why the safety and reliability of our products is unmatched.

Characteristics & Benefits of the RRC2xxx series standard Li-Ion battery packs:

- Smart batteries with numerous features according to the SMBus specification
- Integrated LED State of Charge (SoC) indicator
- State-of-the-art lithium-ion cells with the market's highest energy density
- High discharge performance
- JEITA charging profile optimization
- Numerous and redundant safety features
- Battery Life Management: increased protection in case of cell aging
- Increased ESD protection up to 8.00kV
- Up to 80% of initial capacity after 800 cycles

**Worldwide Approvals****No NRE****Fast Time-to-Market****Highest Safety****Highest Quality****Highest Performance****Worldwide Availability****No Obsolescence****Independent of Quantity****Extensive Accessories****Dual Sourcing Strategy****Design-In Support**

Characteristics





| General | |
|----------------------------------|---|
| Delivery status battery capacity | <30% |
| Compliance information | IEC 62133 / CE / UL2054 / CAN ICES-003(B) / NMB-003(B) / FCC / UKCA / PSE / KC / BSMI / GOST-R / CMIM / CCC / RCM / BIS / TISI / UN 38.3 / RoHS / REACH |
| Operating temperature | 0°C to 45°C (charge) -20°C to 60°C (discharge) |
| Storage temperature | -20°C to 50°C max. -20°C to 25°C recommended |
| Communication interface | SMBus |
| P/N | 100569 Each battery has an individual serial number (S/N), which is located on the hardpack label for tracking & traceability. |

| Electrical Parameters | |
|------------------------|-----------------------|
| Nominal voltage | 7.20V |
| Nominal capacity | 6.90Ah |
| Initial impedance | <180mΩ @ 1kHz at 25°C |
| Max. charge current | 4.83A |
| Max. charge voltage | 8.40V |
| Max. discharge current | 9.50A |

| Battery Dimensions | |
|--------------------|---------------------|
| Length | 85.10mm +0.25/-0.25 |
| Width | 77.40mm +0.25/-0.25 |
| Thickness | 22.40mm +0.60/-0.40 |
| Weight | 230g |
| Contacts | +, C, D, T, - |
| Ingress protection | IP40 |



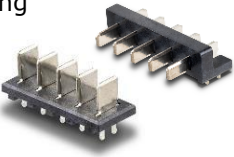
| Safety Features | |
|-------------------------------------|--|
| CUV (Cell Under Voltage) | Protection against deep discharge |
| COV (Cell Over Voltage) | Protection against over charge |
| OTC (Over Temperature in Charge) | Protection against overheating while charging |
| OTD (Over Temperature in Discharge) | Protection against overheating during discharging |
| OCC (Over Current in Charge) | Protection against overcurrent while charging |
| OCD (Over Current in Discharge) | Protection against overcurrent during discharging |
| OL (Overload in Discharge) | Protection against overload during discharging |
| SCC (Short Circuit in Charge) | Protection against short circuits while charging |
| SCD (Short Circuit in Discharge) | Protection against short circuits during discharging |

Recommended Accessories

| Type | Product | P/N | Application |
|--|--|--|--|
| Standard Battery Charger  | RRC-SMB-UBC RRC-SMB-UBC-M | 100485 110105 | 60.00W standard battery charger for optimized charging process. With external power supply for worldwide use. |
| Standard Battery Charger  | RRC-SMB-MBC RRC-SMB-MBC-M | 110017 110104 | 50.00W standard battery charger for optimized charging process. With external power supply for worldwide use. |
| Standard Battery Charger  | RRC-SMB-DBC | 110111 | Dual bay standard battery charger for optimized charging process. With external power supply for worldwide use. |
| Power Management Module  | RRC-PMM20 | 110269 | Power management module for smart battery charging with automatic power source selection. Fits to all RRC20xx standard smart batteries. |
| Power Supply AC/DC  | PS65 | 210919 | External power supply (worldwide use) for embedded battery charger RRC-PMM20 or for mobile devices. Included in RRC-SMB-UBC/MBC. |
| 3-pol AC-Cable  | US-Version EU-Version UK-Version AU-Version CN-Version | 210950 210951 211133 211134 211959 | Country specific power cable for PS65. |
| Car Adapter DC/DC  | RRC-SMB-CAR | 110041 | 90.00W car adapter with USB charging port. Power supplying in cars and trucks for RRC-SMB-UBC, RRC-SMB-MBC, RRC-PMM20 or mobile devices. |

PRODUCT DATA SHEET

RRC2057

| Type | Product | P/N | Application |
|---|-----------------------------------|------------------|---|
| Design-In Tool  | SMBus-Reader | 100127 | Simple read out of SMBus batteries data. No external power supply required. 5way blade connector and RS232 interface. |
| Battery Connector  | SMBus-Battery-Cable | 400665 | Extension cable for battery applications. Suitable for RRC204x and RRC205x batteries. |
| Battery Mating Connector  | RRC-MC20-90-10 RRC-MC20-180-10 | 210519 210518 | Mating connector for standard smart batteries from RRC. Suitable for RRC20xx batteries. Available for 90° or 180° PCB mounting. |





SETTING STANDARDS
IN POWER SOLUTIONS

Our special competence is the development of power solutions according to the concrete requirements of our customers. We offer both standardized as well as customized solutions for customer's applications, while guaranteeing the highest level of safety and reliability to all our products. As an international company with German roots, we have a worldwide market operation - where we provide our proven German engineering skills combined with our technical expertise and flexibility, which are necessary to meet the challenges of the growing global market.



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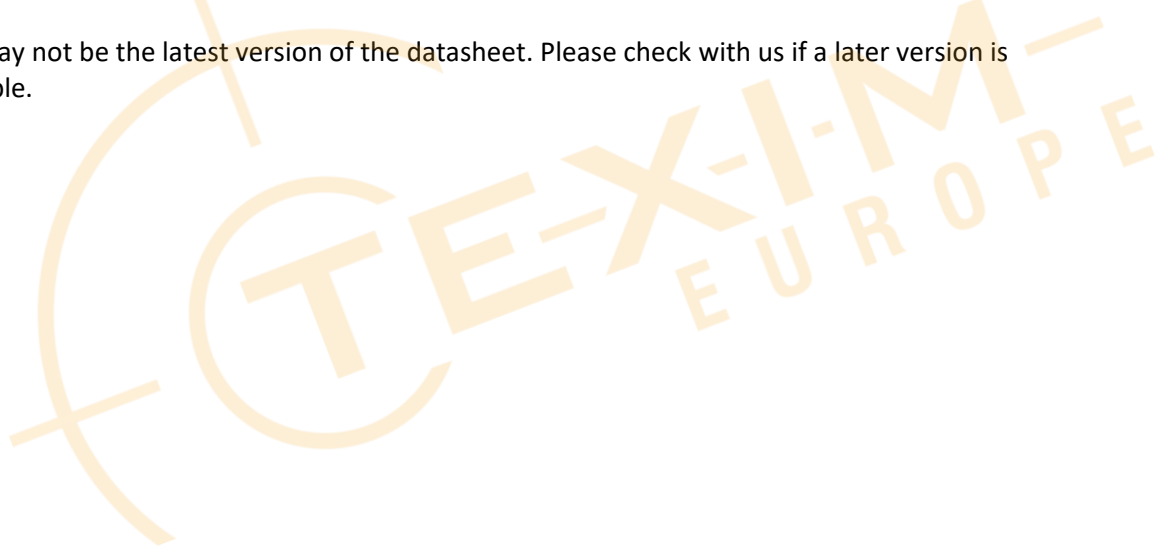
It is the customer's responsibility to validate that a particular product with the properties described in the product specification is suitable for use in a particular application.

Parameters provided in datasheets and / or specifications may vary in different applications and performance may vary over time.

All operating parameters, including typical parameters, must be validated for each customer application by the customer's technical experts.

Please contact us if you have any questions about the contents of the datasheet.

This may not be the latest version of the datasheet. Please check with us if a later version is available.





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