

## RRC2054-2

Standard Battery Pack Li-Ion  
14.40V / ≥6.80Ah / ≥97.92Wh



Picture only for reference



### Features

- Worldwide approvals and certification of safety standards
- No development costs, fast time-to-market
- 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 ageing
- Increased ESD protection up to 8.00kV
- Up to 80% of initial capacity after 800 cycles

### Applications

Suitable for use with tablet PC’s, notebooks, industrial and medical devices, etc.

## Specification

| 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 / CQC / RCM / BIS / TISI / UN 38.3 / RoHS / REACH |
| Operating temperature            | 0°C to 45°C (charge)<br>-20°C to 60°C (discharge)   |
| Storage temperature              | -20°C to 50°C max.<br>-20°C to 25°C recommended   |
| P/N                              | 1100640<br>Each battery has an individual serial number (S/N), which is located on the hardpack label for tracking & traceability.                      |



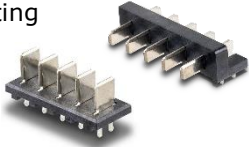
| Electrical Parameters  |                       |
|------------------------|-----------------------|
| Nominal voltage        | 14.40V                |
| Nominal capacity       | ≥6.80Ah               |
| Initial impedance      | <180mΩ @ 1kHz at 25°C |
| Max. charge current    | ≥3.40A                |
| Max. charge voltage    | 16.80V                |
| Max. discharge current | 8.50A                 |

| Battery Dimensions |                      |
|--------------------|----------------------|
| Length             | 150.40mm +0.40/-0.40 |
| Width              | 77.40mm +0.25/-0.25  |
| Thickness          | 22.40mm +0.60/-0.40  |
| Weight             | 440g                 |
| Contacts           | +, C, D, T, -        |
| Ingress protection | IP40                 |

| Safety Features                     |   |
|-------------------------------------|---|
| CUV (Cell Under Voltage)            | Protection against deep discharge                 |
| COV (Cell Over Voltage)             | Protection against overcharge                     |
| OTC (Over Temperature in Charge)    | Protection against overheating while charging     |
| OTD (Over Temperature in Discharge) | Protection against overheating during discharging |

**Recommended Accessories**

| Type                     | Product  | P/N  | Application  |
|--------------------------|--|--|--|
| Standard Battery Charger |  RRC-SMB-UBC  | 100485   | 60.00W standard battery charger for optimized charging process. With external power supply for worldwide use.                            |
| Standard Battery Charger |  RRC-SMB-MBC  | 110017   | 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-PMM240   | 100576   | 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-PMM240 or for mobile devices. Included in RRC-SMB-UBC/MBC.        |
| AC Power Cable           |  US-Version<br>EU-Version<br>UK-Version<br>AU-Version<br>CN-Version | 210950<br>210951<br>211133<br>211134<br>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-PMM240 or mobile devices |

| Type                     | Product   | P/N              | Application   |
|--------------------------|---|------------------|---|
| Design-In Tool           |  SMBus Reader                      | 100122           | 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<br>RRC-MC20-180-10 | 210519<br>210518 | Mating connector for standard smart batteries from RRC. Suitable for RRC20xx batteries. Available for 90° or 180° PCB mounting. |

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