

# RRC2037

## Standard Battery Pack Li-Ion

7.20V / 2.90Ah / 20.90Wh

P/N: 110133



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
- Life expectancy: Up to 80% of initial capacity after 800 cycles

## Applications

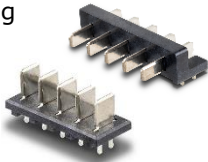
Suitable for use with industrial and medical devices, etc.

## Specification

| General                             |                                                                                                                   |
|-------------------------------------|-------------------------------------------------------------------------------------------------------------------|
| Delivery status battery capacity    | <30%                                                                                                              |
| Compliance information              | IEC 62133 / CE / UL2054 / FCC / UKCA / PSE / KC / BSMI / GOST-R / CMIM / CQC / RCM / BIS / 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                                                                   |
| Electrical Parameters               |                                                                                                                   |
| Nominal voltage                     | 7.20V                                                                                                             |
| Nominal capacity                    | 2.90Ah                                                                                                            |
| Initial impedance                   | <200mΩ @ 1kHz at 25°C                                                                                             |
| Max. charge current                 | 2.03A                                                                                                             |
| Max. charge voltage                 | 8.40V                                                                                                             |
| Max. discharge current              | 4.50A                                                                                                             |
| Battery Dimensions                  |                                                                                                                   |
| Length                              | 85.39mm +0.40/-0.40                                                                                               |
| Width                               | 41.99mm +0.40/-0.40                                                                                               |
| Thickness                           | 22.40mm +0.40/-0.25                                                                                               |
| Weight                              | 121g                                                                                                              |
| 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                                                                 |

## Recommended Accessories

| Type                     |                                                                                     | Product                                                                                         | P/N                                                          | Application                                                                                                                             |
|--------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|--------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| Standard Battery Charger |    | RRC-SBC2037<br>EU-Version<br>US-Version<br>AU-Version<br>KC-Version<br>CC-Version<br>UK-Version | <br>110197<br>110198<br>110199<br>110200<br>110201<br>110202 | 12.00W standard battery charger for optimized charging process of RRC2037. With external power supply for worldwide use.                |
| Standard Battery Charger |    | RRC-SMB-UBC<br>RRC-SMB-UBC-M                                                                    | <br>100485<br>110105                                         | 60.00W standard battery charger for optimized charging process. With external power supply for worldwide use.                           |
| Standard Battery Charger |   | RRC-SMB-MBC<br>RRC-SMB-MBC-M                                                                    | <br>110017<br>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-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.       |
| 3-pol AC-Cable           |  | US-Version<br>EU-Version<br>UK-Version<br>AU-Version<br>CN-Version                              | <br>210950<br>210951<br>211133<br>211134<br>211595           | Country specific power cable for PS65.                                                                                                  |

| Type                                                                                                             | Product                           | P/N              | Application                                                                                                                               |
|------------------------------------------------------------------------------------------------------------------|-----------------------------------|------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| Car Adapter<br>DC/DC<br>        | 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. |
| Design-In Tool<br>              | SMBus-Reader                      | 100127           | Simple read out of SMBus batteries data. No external power supply required. 5way blade connector and RS232 interface.                     |
| Battery Mating<br>Connector<br> | 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.           |



## Germany/Headquarters

RRC power solutions GmbH  
Technologiepark 1  
66424 Homburg / Saar

Tel.: +49 6841 98090  
Fax: +49 6841 9809280  
Email: [sales@rrc-ps.de](mailto:sales@rrc-ps.de)  
Web: [www.rrc-ps.com](http://www.rrc-ps.com)

## USA

RRC power solutions Inc.  
18340 Yorba Linda Blvd.,  
# 107-437  
Yorba Linda, CA 92886

Tel.: +1 714 777 3604  
Fax: +1 714 777 3658  
Email: [usa@rrc-ps.com](mailto:usa@rrc-ps.com)  
Web: [www.rrc-ps.com](http://www.rrc-ps.com)

## Hong Kong

RRC power solutions Ltd.  
S-V,6/F, Valiant Industrial  
Centre 2-12 Au Pui Wan Street  
Fo Tan, N.T., Hong Kong

Tel.: +852 2376 0106  
Fax: +852 2375 0107  
Email: [hkrcc@rrc-ps.cn](mailto:hkrcc@rrc-ps.cn)  
Web: [www.rrc-ps.cn](http://www.rrc-ps.cn)

## China

RRC power solutions Ltd.  
Room 1306, C Building,  
Tianan International building,  
Renmin South Road, Luohu  
District, Shenzhen 518021

Tel.: +86 755 8374 1908  
Fax: +86 755 8374 1861  
Email: [hkrcc@rrc-ps.cn](mailto:hkrcc@rrc-ps.cn)  
Web: [www.rrc-ps.cn](http://www.rrc-ps.cn)



## Headquarters & Warehouse

Elektrostraat 17  
NL-7483 PG Haaksbergen  
The Netherlands

T: +31 (0)53 573 33 33  
E: [info@texim-europe.com](mailto:info@texim-europe.com)  
Homepage: [www.texim-europe.com](http://www.texim-europe.com)



### The Netherlands

Elektrostraat 17  
NL-7483 PG Haaksbergen

T: +31 (0)53 573 33 33  
E: [nl@texim-europe.com](mailto:nl@texim-europe.com)



### Belgium

Zuiderlaan 14, box 10  
B-1731 Zellik

T: +32 (0)2 462 01 00  
E: [belgium@texim-europe.com](mailto:belgium@texim-europe.com)



### UK & Ireland

St Mary's House, Church Lane  
Carlton Le Moorland  
Lincoln LN5 9HS

T: +44 (0)1522 789 555  
E: [uk@texim-europe.com](mailto:uk@texim-europe.com)



### Germany - North

Bahnhofstrasse 92  
D-25451 Quickborn

T: +49 (0)4106 627 07-0  
E: [germany@texim-europe.com](mailto:germany@texim-europe.com)



### Germany - South

Martin-Kollar-Strasse 9  
D-81829 München

T: +49 (0)89 436 086-0  
E: [muenchen@texim-europe.com](mailto:muenchen@texim-europe.com)



### Austria

Warwitzstrasse 9  
A-5020 Salzburg

T: +43 (0)662 216 026  
E: [austria@texim-europe.com](mailto:austria@texim-europe.com)



### Nordic

Søndre Jagtvej 12  
DK-2970 Hørsholm

T: +45 88 20 26 30  
E: [nordic@texim-europe.com](mailto:nordic@texim-europe.com)



### Italy

Via Matteotti 43  
IT-20864 Agrate Brianza (MB)

T: +39 (0)39 9713293  
E: [italy@texim-europe.com](mailto:italy@texim-europe.com)