

RRC2037

Standard Battery Pack Li-Ion
7.20V / 3.35Ah / 24.12Wh

Datasheet



 **RRC**
SETTING STANDARDS
IN POWER SOLUTIONS



The RRC2037 is in use in more than 50 different industries in a variety of applications, such as data capture devices, respirators, nondestructive testers, 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



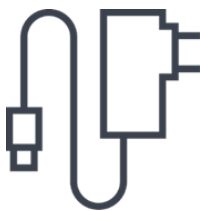
Worldwide Availability



No Obsolescence



Independent of Quantity



Extensive Accessories



Dual Sourcing Strategy




Design-In Support

Characteristics




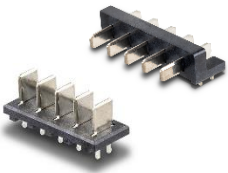
General	
Delivery status battery capacity	<30%
Compliance information	IEC 62133 / CE / UL2054 / CAN ICES-003(B) / NMB-003(B) / FCC / UKCA / PSE / KC / BSMI / GOST-R / CMIM / CCC / RCM / BIS / TISI / UN 38.3 / RoHS / REACH
Operating temperature	0°C to 45°C (charge) -20°C to 60°C (discharge)
Storage temperature	-20°C to 50°C max. -20°C to 25°C recommended
Communication interface	SMBus
P/N	110133 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	3.35Ah
Initial impedance	Max. 120mΩ @ 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	124g
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-SBC2037		12.00W standard battery charger for optimized charging process of RRC2037. With external power supply for worldwide use.
	EU-Version	110197	
	US-Version	110198	
	AU-Version	110199	
	KC-Version	110200	
	CC-Version	110201	
UK-Version	110202		
Standard Battery Charger 	RRC-SMB-UBC	100485	60.00W standard battery charger for optimized charging process. With external power supply for worldwide use.
	RRC-SMB-UBC-M	110105	
Standard Battery Charger 	RRC-SMB-MBC	110017	50.00W standard battery charger for optimized charging process. With external power supply for worldwide use.
	RRC-SMB-MBC-M	110104	
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	210950	Country specific power cable for PS65.
	EU-Version	210951	
	UK-Version	211133	
	AU-Version	211134	
	CN-Version	211959	

PRODUCT DATA SHEET

RRC2037

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



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.

Germany / HQ

RRC power solutions GmbH

Technologiepark 1
66424 Homburg / Saar+49 6841 98090
sales@rrc-ps.com**USA**

RRC power solutions Inc.

18340 Yorba Linda Blvd.
107-437
Yorba Linda, CA 92886+1 714 777 3604
usa@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+852 2376 0106
hkrrc@rrc-ps.cn**China**

RRC power solutions Ltd.

Room 1306, C Building,
Tianan International
Building
Renmin South Road
Luohu District
Shenzhen 518021+86 755 8374 1908
hkrrc@rrc-ps.cn**Vietnam**RRC Power Solutions
Company Ltd.Block C, Lot CN4
Dinh Vu - Cat Hai Economic
Zone, Dong Hai 2 Ward
Hai An District, 180000
Hai Phong City

vietnam@rrc-ps.com