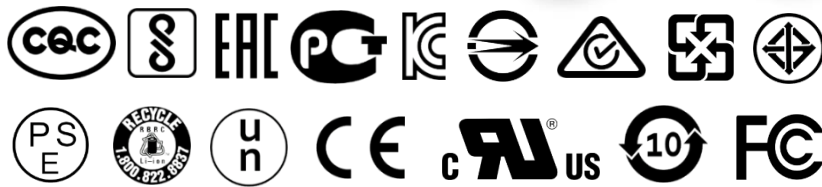


## RRC2040

Standard Battery Pack Li-Ion  
10.80V / 3.35Ah / 36.20Wh  
P/N: 100498



### 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, e.g.:
  - 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
  - Battery Life Management: protection against rapid cell ageing
- Increased ESD protection up to 8.00kV
- SHA-1 cryptosystem to prevent plagiarism

### 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 / FCC / PSE / KC / BSMI / Gost / EAC / CQC / 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



Electrical Parameters	
Nominal voltage	10.80V
Nominal capacity	3.35Ah
Initial impedance	Max. 350mΩ @ 1kHz at 25°C
Max. charge current	2.35A
Max. charge voltage	12.60V
Cont. discharge	4.00A
Peak discharge	4.80A
Life expectancy @ 25°C 1.625A Charge/3.25A Discharge	300 cycles with ≥ 63% of initial capacity

Battery Dimensions	
Length	84.87mm +0.25/-0.25
Width	58.76mm +0.25/-0.25
Thickness	21.89mm +0.50/-0.25
Weight	170g
Contacts	+, C, D, T, -

Safety Parameters PCM	
Overcharge detection voltage / cell	4.25V
Overcharge release voltage / cell	4.00V
Overdischarge detection voltage / cell	2.50V
Overdischarge release voltage / cell	2.75V
Overcharge detection current	3.00A
Overdischarge detection current	4.80A

## Recommended Accessories

Type		Product	P/N	Application
Standard Battery Charger		RRC-SMB-UBC	100485	65.00W standard battery charger for optimized charging process with external power supply for world-wide use.
Standard Battery Charger		RRC-SMB-MBC	110017	50.00W standard battery charger for optimized charging process with external power supply for world-wide use.
Power Management Module		RRC-PMM240	100576	Power management module for smart battery charging with automatic power source selection. 82.00W max. output power to battery and 240.00W max. output power to application. Fits to all 20XX standard smart batteries from RRC.
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		USA/CAN/JPN EU/KOR UK/SGP AUS/NZL	210950 210951 211333 211334	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
Design-In Tool		SMBus Reader	100122	Simple read out of SMBus batteries data. No external power supply required. 5way blade connector and RS232 interface.

Type		Product	P/N	Application
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 (e.g. RRC2020, RRC2054, ...). 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.de](http://www.rrc-ps.de)

## USA

RRC power solutions Inc.  
18340 Yorba Linda Blvd.,  
# 107-437 Yorba Linda,  
CA 92886-4104

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: [hkrrc@rrc-ps.cn](mailto:hkrrc@rrc-ps.cn)  
Web: [www.rrc-ps.com](http://www.rrc-ps.com)

## 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: [hkrrc@rrc-ps.cn](mailto:hkrrc@rrc-ps.cn)  
Web: [www.rrc-ps.com](http://www.rrc-ps.com)

# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[RRC Power Solutions:](#)

[RRC2040](#)