

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
- Life expectancy: 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 / 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	<350mΩ @ 1kHz at 25°C
Max. charge current	2.35A
Max. charge voltage	12.60V
Cont. discharge	4.00A
Peak discharge	4.80A

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, -
Ingress protection	IP40

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	60.00W 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.
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 EU-Version UK-Version AU-Version	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

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 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.

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