

RRC2020

Rechargeable Smart Battery Pack Li-Ion 10.80V / 9.22Ah / 99.6Wh

P/N: 100496



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 8kV
- 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	CE / UL2054 / FCC / PSE / KC / Gost / EAC / CQC / RCM / IEC62133 / UN38.3 / RoHS / REACH / BIS / TISI / BSMI
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	9.22Ah
Initial impedance	<200mΩ @ 1kHz at 25°C
Max. charge current	6.20A
Max. charge voltage	12.30V
Max. discharge current	10.00A
Life expectancy	300 cycles with ≥ 63% of initial capacity
	CC/CV Charge: 4.88A / 12.30V Discharge: 4.88A down to 7.50V @25°C

Battery Dimensions	
Length (min. – max.)	148.30 - 149.70mm
Width (min. – max.)	88.75 - 89.25mm
Thickness (min. – max.)	19.45 – 20.10mm
Weight	480g
Contacts	+, C, D, T, -

Safety Parameters PCM	
Overcharge detection voltage / cell	4.15V
Overdischarge detection voltage / cell	2.50V
Overcharge detection current	8.00A
Overdischarge detection current	11.00A



Recommended Accessories

Туре	Product	P/N	Application
Battery Charger	RRC-SMB-UBC RRC-SMB-UBC-M	100485 110105	65W standard battery charger for optimized charging process. With external power supply for worldwide use.
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 for power management module RRC-PMM240 or for mobile devices. Included in RRC-SMB-UBC/MBC.
3-pol AC-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	90W car adapter with USB charging port. Power suppling in cars and trucks for RRC-SMB-UBC, RRC-SMB-MBC, RRC-PMM240 or mobile devices.

TECHNICAL DATA SHEET





Туре	Product	P/N	Application
Design-In Tool	SMBus-Reader	100127	Simple read out of SMBus batteries data. No external power supply required. 5way blade connector and RS232 interface.
Battery 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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