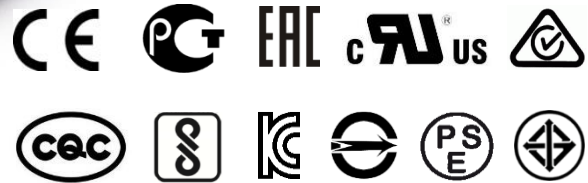


RRC2054

Rechargeable Smart Battery Pack
Li-Ion 14.40V / 3.45Ah / 49.7Wh



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
 - Life-End-Control: 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	14.40V
Nominal capacity	3.45Ah
Initial impedance	<180mΩ @ 1kHz at 25°C
Max. charge current	2.415A
Max. charge voltage	16.80V
Max. discharge	5.00A
Life expectancy	300 cycles with ≥ 75% of initial capacity CC/CV Charge: 1.675A / 16.80V Discharge: 3.35A down to 10.00V @25°C

Battery Dimensions	
Length	85.1mm +0.25/-0.25
Width	77.4mm +0.25/-0.25
Thickness	22.4mm +0.60/-0.40
Weight	230g
Contacts	+, D, C, T, -

Safety Parameters PCM	
Overcharge detection voltage / cell	4.23V
Overdischarge detection voltage / cell	2.50V
Overcharge detection current	3.35A
Overdischarge detection current	5.50A

Recommended Accessories

Type	Product	P/N	Application
Battery Charger	 SMB-UBC SMB-UBC-M	D90481 D90551	65W standard battery charger for optimized charging process. With external power supply for worldwide use.
Battery Charger	 SMB-MBC SMB-MBC-M	D90515 D90539	50W standard battery charger for optimized charging process. With external power supply for worldwide use.
Battery Charger	 SMB-DBC	D90512	Dual bay standard battery charger for optimized charging process. With external power supply for worldwide use.
Power Management Module	 PMM240	D90513	Power management module for smart battery charging with automatic power source selection. Fits to all RRC20xx standard smart batteries.
Power Supply AC/DC	 PS65	D90540	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	 SMB-CAR	D90554	90W 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	D90534	Simple read out of SMBus batteries data. No external power supply required. 5way blade connector and RS232 interface.
Battery Connector 	SMBus-Battery-Cable	D90508	Extension cable for battery applications. Suitable for RRC204x and RRC205x batteries.
Battery Connector 	MC20-90-10 MC20-180-10	D90536 D90537	Mating connector for standard smart batteries from RRC. Suitable for RRC20xx batteries. Available for 90° or 180° PCB mounting.