

RRC2024

Standard Battery Pack Li-Ion
14.40V / 6.60Ah / 95.00Wh
P/N: 100497



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 / UKCA / PSE / KC / BSMI / Gost / CMIM / 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	14.40V
Nominal capacity	6.60Ah
Initial impedance	<150mΩ @ 1kHz at 25°C
Max. charge current	4.53A
Max. charge voltage	16.80V
Max. discharge current	10.00A

Battery Dimensions

Length	167.20mm +0.50/-0.50
Width	107.20mm +0.40/-0.30
Thickness	21.51mm +0.30/-0.50
Weight	600g
Contacts	+, D, C, T, -
Ingress protection	IP40

Safety Parameters PCM



Overcharge detection voltage / cell	4.30V
Overdischarge detection voltage / cell	2.50V
Overcharge detection current	6.45A
Overdischarge detection current	11.00A



Recommended Accessories

Type	Product	P/N	Application
Standard Battery Charger	 RRC-SMB-UBC RRC-SMB-UBC-M	100485 110105	60.00W standard battery charger for optimized charging process. With external power supply for worldwide 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.
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	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	100127	Simple read out of SMBus batteries data. No external power supply required. 5way blade connector and RS232 interface.
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.



Germany/Headquarters

RRC power solutions GmbH
 Technologiepark 1
 66424 Homburg / Saar

Tel.: +49 6841 98090
 Fax: +49 6841 9809280
 Email: sales@rrc-ps.de
 Web: www.rrc-ps.com

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
 Web: 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: hkrcc@rrc-ps.cn
 Web: www.rrc-ps.cn

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: hkrcc@rrc-ps.cn
 Web: www.rrc-ps.cn

The Netherlands



Elektrostraat 17
NL-7483 PG Haaksbergen

T: +31 (0)53 573 33 33
F: +31 (0)53 573 33 30
E: nl@texim-europe.com

Belgium



Zuiderlaan 14 bus 10
B-1731 Zellik

T: +32 (0)2 462 01 00
F: +32 (0)2 462 01 25
E: belgium@texim-europe.com

UK & Ireland



St. Mary's House, Church Lane
Carlton Le Moorland
Lincoln LN5 9HS

T: +44 (0)1522 789 555
F: +44 (0)845 299 22 26
E: uk@texim-europe.com

Germany North



Bahnhofstrasse 92
D-25451 Quickborn

T: +49 (0)4106 627 07-0
F: +49 (0)4106 627 07-20
E: germany@texim-europe.com

Germany South



Martin-Kollar-Strasse 9
D-81829 München

T: +49 (0)89 436 086-0
F: +49 (0)89 436 086-19
E: germany@texim-europe.com

Austria



Warwitzstrasse 9
A-5020 Salzburg

T: +43 (0)662 216 026
F: +43 (0)662 216 026-66
E: austria@texim-europe.com

Nordic region



Sdr. Jagtvej 12
DK-2970 Hørsholm

T: +45 88 20 26 30
F: +45 88 20 26 39
E: nordic@texim-europe.com

Italy



Via Matteotti 43
IT-20864 Agrate Brianza (MB)

T: +39 (0)39 971 3293
F: +39 (0)39 971 3293
E: italy@texim-europe.com

General information



info@texim-europe.com
www.texim-europe.com