

# Technical Data Sheet

## Rechargeable Lithium-ion Battery Pack RRC2040



### Standard Li-ion battery pack RRC2040 3 x 18650 cells (3S1P) with 11.25V / 2950mAh / 33.2Wh

#### Features:

- Highest available energy density
- SMBus v1.1 compliant
- Fulfils JEITA standards, advanced temperature-dependent charging profile
  - Fastest charging
  - Maximized cycle life
- Impedance tracking and cell balancing
  - No manual recalibration necessary
  - Longest lifetime
- Comprehensive charging/discharging and passive safety systems
- Worldwide approvals
- Registered with recycling systems worldwide

#### Applications:

Suitable for use with tablet PC's, notebooks, industrial and medical devices, etc.

### Specification

General	
Basic Cell	18650
Delivery status	30%
battery capacity	
Operating temperature	0°C to 45°C (charge) -20°C to 60°C (discharge)
Storage temperature	-20°C to 60°C max. -20°C to 20°C recommended
Compliance information	CE / UL2054 / FCC / PSE / KC / BSMI / Gost / EAC / CQC / RCM / IEC 62133 / UN 38.3 / ROHS / Reach / BIS

Electrical Parameters	
Nominal Voltage	11.25V
Nominal capacity	2950mAh
Initial impedance	<200mΩ @ 1kHz at 20°C
Max. charge current	2065mA
Max. charge voltage	13.05V
Cont. discharge	3000mA
Peak discharge	10000mA
Life expectancy @25°C	>300 cycles with
1.5A Charge/1.5A Discharge	min 75% of initial capacity

Battery Dimensions	
Length	84.9mm±0.25
Width	58.8mm±0.25
Thickness	21.9mm+0.5/-0.25
Weight	170g
Contacts	+, C, D, T, -

Safety Parameters PCM	
Overcharge detection voltage	4420mV
Overcharge release voltage	4200mV
Overdischarge detection voltage	2600mV
Overdischarge release voltage	3000mV
Overcharge detection current	2300mA
Overdischarge detection current	3500mA

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### Recommended Accessories

Type	Product	Application
Desktop Battery Charger	 RRC-SMB-UBC	65W standard desktop battery charger for optimized charging process with external power supply* for worldwide use.
Desktop Battery Charger	 RRC-SMB-MBC	50W standard desktop battery charger for optimized charging process with external power supply* for worldwide use.
Desktop Battery Charger	 PMC02A	65W 2-bay desktop battery charger for optimized charging process with external power supply* for worldwide use.
Desktop Battery Charger	 PMC10A	320W 10-bay desktop battery charger for optimized charging process with internal power supply*. Wide input voltage range for worldwide use.
Embedded Battery Charger	 RRC-PMM240	Power management module for smart battery charging with automatic power source selection. 82W max. output power to battery and 240W max. output power to application. Fits to all 20XX standard smart batteries from RRC.
Power Supply	 PS65	External power supply (worldwide use) for embedded battery charger RRC-PMM240 or for mobile devices. Included in RRC-SMB-UBC/MBC and PMC02A.
AC Power Cable	 210950 for USA/CAN/JPN 210951 for EU/KOR 211333 for UK/SGP 211334 for AUS/NZL	Country specific power cable for PS65.
Car Adapter	 RRC-SMB-CAR	90W car adapter with USB charging port. Power supplying in cars and trucks for RRC-SMB-UBC, RRC-SMB-MBC, PMC02A, RRC-PMM240 or mobile devices.
Battery Diagnostic Tool	 SMBus Reader	Simple read out of SMBus batteries data. No external power supply required. 5way blade connector and RS232 interface.
Extension Cable	 SMBus Battery Cable	Extension cable for battery applications. Suitable for RRC204X and RRC205X batteries.
Battery Mating Connector	 RRC-MC20-90-10 RRC-MC20-180-10	Mating Connector for standard smart batteries from RRC (e.g. RRC2020, RRC2054, ...). Available for 90° or 180° PCB mounting.

\* - Additional country specific power cable for power supply available

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