RRC1130

Standard Battery Pack Li-Ion
3.80V / 3.81Ah / 14.47Wh

Datasheet



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The RRC1130 is in use in more than 50 different industries in a variety of applications, such as frequency analyzers, GPS systems, flow meters, and many more.

In total, we count more than 4000 design-ins for our standard batteries, which is why the safety and reliability of our products is unmatched.

Characteristics & Benefits of the RRC1xxx series standard Li-Ion battery packs:

- Smart batteries with numerous features and I²C communication
- 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
- Increased ESD protection up to 8.00kV
- Up to 80% of initial capacity after 800 cycles

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Worldwide Approvals



No NRE



Fast Time-to-Market



Highest Safety



Highest Quality



Highest Performance



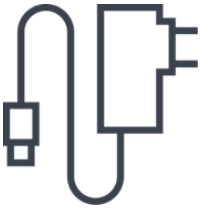
Worldwide Availability



No Obsolescence



Independent of Quantity



Extensive Accessories



Dual Sourcing Strategy



Design-In Support

Characteristics

General	
Delivery status battery capacity	<30%
Compliance information	IEC 62133 / CE / UL2054 / FCC / CAN ICES-003(B) / NMB-003(B) / UKCA / PSE / KC / BSMI / GOST-R / CMIM / CCC / 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 60°C max. -20°C to 25°C recommended
Communication interface	I²C
P/N	110019 Each battery has an individual serial number (S/N), which is located on the hardpack label for tracking & traceability.

Electrical Parameters	
Nominal voltage	3.80V
Nominal capacity	3.81Ah
Initial impedance	<60mΩ @ 1kHz at 25°C
Max. charge current	2.40A
Max. charge voltage	4.35V
Max. discharge current	3.00A

Battery Dimensions	
Length	83.95mm +0.25/-0.25
Width	61.23mm +0.20/-0.20
Thickness	6.73mm +0.10/-0.10
Weight	65g
Contacts	-, SDA (NTC), +, SCL
Ingress protection	IP40

Safety Features	
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
OCC (Over Current in Charge)	Protection against overcurrent while charging
OCD (Over Current in Discharge)	Protection against overcurrent during discharging

Recommended Accessories

Type		Product	P/N	Application
Desktop Battery Charger		RRC-SCC1130	110002	5.00W standard desktop battery charger for optimized charging process with external power supply for worldwide use.
Battery Mating Connector		RRC-MC11-90-2	210520	Mating Connector for standard semi smart batteries RRC1120, RRC1130. Available for 90° PCB mounting.

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Our special competence is the development of power solutions according to the concrete requirements of our customers. We offer both standardized as well as customized solutions for customer's applications, while guaranteeing the highest level of safety and reliability to all our products. As an international company with German roots, we have a worldwide market operation - where we provide our proven German engineering skills combined with our technical expertise and flexibility, which are necessary to meet the challenges of the growing global market.

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