# RRC1120

Standard Battery Pack Li-Ion 3.60V / 2.35Ah / 8.46Wh

## **Datasheet**



(H) X & B 6 0 FC





The RRC1120 is in use in more than 50 different industries in a variety of applications, such as infusion pumps, Cardiopulmonary measurement devices, 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

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

- Smart batteries with numerous features and I<sup>2</sup>C 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





**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	I <sup>2</sup> C
P/N	110018 Each battery has an individual serial number (S/N), which is located on the hardpack label for tracking & traceability.

Electrical Parameters	
Nominal voltage	3.60V
Nominal capacity	2.35Ah
Initial impedance	<100mΩ @ 1kHz at 25°C
Max. charge current	1.59A
Max. charge voltage	4.20V
Max. discharge current	2.30A

Battery Dimensions	
Length	52.50mm +0.20/-0.20
Width	34.95mm +0.15/-0.15
Thickness	11.15mm +0.10/-0.10
Weight	42g
Contacts	SCL, +, SDA (ID), -
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		
OL (Overload in Discharge)	Protection against overload during discharging		
SCC (Short Circuit in Charge)	Protection against short circuits while charging		
SCD (Short Circuit in Discharge)	Protection against short circuits during discharging		





#### **Recommended Accessories**

Туре	Product	P/N	Application
Standard Battery Charger	RRC-SCC1120	110001	5.00W standard 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.



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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### **Mouser Electronics**

**Authorized Distributor** 

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