

RRC1120

Standard Battery Pack Li-Ion

3.70V / 2.00Ah / 7.40Wh

P/N: 110018



Features

- Off-the-shelf single cell pack with high-energy density in a slim and compact design
- Allows to develop smaller and lightweight portable devices with long runtime, lower NRE costs and shorter time to market
- Fuel Gauge based on Impedance Tracking™ delivers accurate Time-To-Empty & Remaining Capacity predictions over the life time
- I²C communication
- Temperature protection by NTC
- Comprehensive charging/discharging and passive safety systems
- Worldwide approvals
- Registered with recycling systems worldwide

Applications

Suitable for use with hand held compact devices in industrial and medical areas, etc.

Specification

General

| | |
|----------------------------------|---|
| Delivery status battery capacity | max. 30% |
| Compliance information | IEC62133 / CE / UL2054 / FCC / PSE / KC / Gost / EAC / CQC / RCM / BIS / TISI / UN38.3 / 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 20°C recommended |

Electrical Parameters

| | |
|--|--|
| Nominal voltage | 3.70V |
| Nominal capacity | 2.00Ah |
| Initial impedance | <100.00mΩ @ 1kHz at 20°C |
| Max. charge current | 1.10A |
| Max. charge voltage | 4.20V |
| Max. discharge | 2.00A |
| Life expectancy @ 25°C 1.00A Charge/1.00A Discharge | >300 cycles with ≥ 80% of initial capacity |



Battery Dimensions

| | |
|-----------|----------------------|
| Length | 52.50mm ±0.40mm |
| Width | 34.78mm ±0.40mm |
| Thickness | 11.30mm max. |
| Weight | 42g |
| Contacts | +, -, SDA (NTC), SCL |

Safety Parameters PCM

| | |
|---------------------------------|-------|
| Overcharge detection voltage | 4.28V |
| Overdischarge detection voltage | 2.80V |
| Overcharge detection current | 1.36A |
| Overdischarge detection current | 2.27A |

Recommended Accessories

| Type | 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. |

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