

## 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
- I<sup>2</sup>C communication
- Temperature protection by NTC
- Comprehensive charging/discharging and passive safety systems
- Worldwide approvals and certification of safety standards
- Registered with recycling systems worldwide
- Life expectancy: Up to 80% of initial capacity after 800 cycles

### Applications

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

**Specification**



<b>General</b>	
Delivery status battery capacity	<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

<b>Electrical Parameters</b>	
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

<b>Battery Dimensions</b>	
Length	52.50mm +0.40/-0.40
Width	34.78mm +0.40/-0.40
Thickness	11.30mm max.
Weight	42g
Contacts	+, -, SDA (NTC), SCL

<b>Safety Parameters PCM</b>	
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.

### 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.de

### 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: hkrrc@rrc-ps.cn  
Web: www.rrc-ps.com

### 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: hkrrc@rrc-ps.cn  
Web: www.rrc-ps.com