

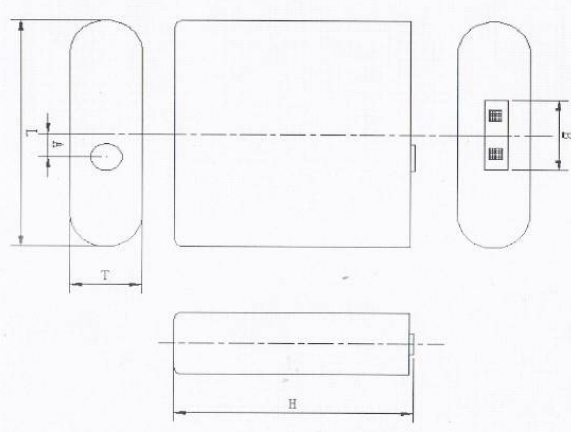

POWER-XTRA

Model : Power-Xtra 3.7V Li-ion 103450 1800 Mah Battery

Ver: REV002

NO:900.869.503.079

1. Specification

Technical Drawing and Dimensions		Image	
			
Length (L)	49.2±1mm		
Width (W)	33.7±1mm		
Thickness (T)	10.4±0.5mm		
NO.	Item	Specifications	
1	Nominal Capacity	1800mAh	@ 0.2C Discharge (0.2C)
	Typical Capacity	1700mAh	@ 0.2C Discharge (0.2C)
	Minimum capacity	1660mAh	@ 0.2C Discharge (0.2C)
2	Nominal voltage	3.7V	
3	Standard Charge	CC/CV,0.2C, 4.20V	
4	Standard Discharge	CC,0.2C,3.0V	
5	End-of-charge Voltage	4.20V±0.05V	
6	End-of-charge Current	0.02C (At CV mode)	
7	End-of-discharge Voltage	3.0 V	
8	Max Charge Current	1.0 C	
9	Max Discharge Current	1.5 C	
10	Initial Impedance	Max:60mΩ	
11	Weight	Approx: 35g	
12	Operating temperature	Charging: 0°C-45°C Discharging: -20°C-60°C	
13	Storage temperature	-5°C-35°C	
14	Storage Humidity	≤75% RH	
15	Appearance	Without scratch, distortion, contamination and leakage	
16	Standard environmental condition	Temperature: 25±2°C Humidity: 45-75%RH Atmospheric Pressure: 86-106 KPA	
17	Temperature Dependence of Discharge Capacity	@ 0.2C Discharge (0.2C)	

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Charge temperature	Discharge temperature				
25°C	-10°C	0°C	15°C	25°C	40°C
Relative Capacity	50%	80%	90%	100%	100%

2. General Performance

No.	Item	Test Methods and Condition	Criteria
1	0.2C Capacity	After standard charging, rest battery for 10min, then discharging at 0.2C to voltage 3.0V, recording the discharging time.	≥100%
2	Cycle Life	Constant current 0.5C charge to 4.2V, then constant voltage charge to current declines to 0.01C, rest 10min, constant current 0.5C discharge to 3.0V, rest 10min. Repeat above steps till continuously discharging capacity Higher than 80% of the Initial Capacities of the Cells	≥300 times(次)

3. Safe Characteristic

No.	Item	Test Methods and Condition	Criteria
1	Over charge testing	At 23±5°C, charging cells with constant current 2C to voltage 5.0V, Stop test till cells temperature 10°C lower than max temperature.	No smoke or fire
2	Over discharge testing	At 23±5°C, According to the requirements of standard charge, the cells will be discharge to cut-off voltage, then connect with external load of 30 ohm for 24 hours.	No fire, no smoke, no leakage.
3	Short-circuit testing	At 23±5°C, After standard charging, connect cells anode and cathode by wire which impedance less than 80±20mΩ, keep 6h.	No smoke or fire,
4	Thermal shock	Put the cells in the oven. The temperature of the oven is to be raised at 5±2°C per minute to a temperature of 130±2°C and remains 30 minutes.	No fire, no smoke

※ Above testing of safe characteristic must be with protective equipment.

4. CAUTIONS IN USE

To ensure proper use of the battery please read the manual carefully before using it. Handling

- Do not expose to, dispose of the battery in fire.
- Do not put the battery in a charger or equipment with wrong terminals connected.
- Avoid shorting the battery
- Avoid excessive physical shock or vibration.
- Do not disassemble or deform the battery.
- Do not immerse in water.
- Do not use the battery mixed with other different make, type, or model batteries.
- Keep out of the reach of children. charge and discharge
- Battery must be charged in appropriate charger only.

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- Never use a modified or damaged charger.
- Do not leave battery in charger over 24 hours.
- 24H storage
- Store the battery in a cool, dry and well-ventilated area . disposal
- Regulations vary for different countries. Dispose of in accordance with local regulations.

5. Battery operation instruction

8.1 Charging

Charging current: Cannot surpass the biggest charging current which in this specification book stipulated.

Charging voltage: Does not have to surpass the highest amount which in this specification book stipulated to decide the voltage.

Charge temperature: The battery must carry on the charge in the ambient temperature scope which this specification book stipulated.

Uses the constant electric current and the constant voltage way charge, the prohibition reverse charges. If the battery positive electrode and the cathode meet instead, can damage the battery.

8.2 Discharging current

The discharging current does not have to surpass this specification book stipulation the biggest discharging current, the oversized electric current electric discharge can cause the battery capacity play to reduce and to cause the battery heat.

8.3 discharge temperature

The battery discharge must carry on in the ambient temperature scope which this specification book stipulated

8.4Over-discharges

After the short time excessively discharges charges immediately cannot affect the use, but the long time excessively discharges can cause the battery the performance, battery function losing. The battery long-term has not used, has the possibility to be able to be at because of its automaticflashover characteristic certain excessively discharges the condition, for prevented excessively discharges the occurrence, the battery should maintain the certain electric quantity.

The battery should store in the product specification book stipulation temperature range. If has surpasses above for six months the long time storage, suggested you should carry on additional charge to the battery.

6. Period of Warranty

The period of warranty is one year from the date of shipment.guarantees to give a replacement in case of cells with defects proven due to manufacturing process instead of the customers abuse and misuse.

7. Other The Chemical Reaction

Because batteries utilize a chemical reaction, battery performance will deteriorate over time even if stored for a long period of time without being used. In addition, if the various usage conditions such as charge, discharge, ambient temperature, etc. are not maintained within the specified ranges the life expectancy of the battery may be shortened or the device in which the battery is used may be damaged by electrolyte leakage. If the batteries cannot maintain a charge for long periods of time, even when they are charged correctly, this may indicate it is time to change the battery.