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Specification

of

Li-polymer Rechargeable Battery

Model No.: LP-922543-1S-3

Reported by: 陈声宇 Date: April,05,2016

Checked by: _____ Date: _____

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1. Scope

This specification describes the definition, technical requirement, testing method, warning and caution of the Lithium ion polymer rechargeable battery.

2. Product Model

Battery type: Rechargeable Lithium-ion Polymer Battery
Battery Model: LP -922543-1S-3

3. Ratings

3.1. Nominal Capacity[at 0.2C] : 1000mAh (min);
1050mAh (typical)
3.2. Nominal Voltage : 3.7V (average voltage at 0.2C discharge)
3.3. Charging Voltage: 4.20V
3.4. Max. Charging Current: 0.5C(15℃ ~ +45℃)
3.5. Charging Method: constant current constant voltage
Standard Charge: 0℃~ 15℃ 0.2C constant current charge to 4.2V, then constant voltage 4.2V charge till charged current declines to ≤ 0.02C (charging time 5.5~6.5hrs)
15℃ ~ 45℃ 0.5C constant current charge to 4.2V, then constant voltage 4.2V charge till charged current declines to ≤ 0.02C (charging time: approx 3.5hrs)
3.6. Max. Continuous Discharge Current: 0.5C (23±2℃)
3.7. Discharge Cut-off Voltage: 2.75V (limited by PCB)
3.8. Battery Dimensions (Refer to the attached drawing)
3.9.Battery Weight: ≤ 23g
3.10. Operating Temperature
Discharge: -20℃~ +60℃ (0.2C discharge current, recommend -0~45℃)
Charging: 0℃ ~ +45℃

Storage in a 50% charged state

Temperature range	Duration	Typ. Capacity recovery
-20℃ - +60℃	1month	80%(expected)
-20℃ - +45℃	3months	80%(expected)
-20℃ - +25℃	1year	80%(expected)

The storage voltage should keep voltage state in the factory, over long storage periods cells should be cycled every 90 days, Themethod is to do a chargedischarge cycle with standard method.

4. Battery Performance

4.1. Visual Inspection
There shall be no such defects as remarkable scratches, cracks, leakage or deformations.
4.2. Test Condition
4.2.1.Standard Test Condition