

Specification of Li-polymer Rechargeable Battery

Model No.: LP-573442-1S-3

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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-573442-1S-3

3. Ratings

- 3.1. Nominal Capacity[at 0.2C]: 800mAh
- 3.2. Nominal Voltage: 3.7V (average voltage at 0.2C discharge)
- 3.3. Charging Voltage: 4.20 ±0.05V
- 3.4. Max. Charging Current: 1CmA
- 3.5. Charging Method: constant current constant voltage
- Standard Charge: 0.2C (constant current) charge to 4.20V, then 4.2V (constant voltage) for about 6.5hrs or 0.02C cut off
- Quick Charge: 1CmA(constant current) charge to 4.20V, then 4.2V (constant voltage) for 3.0hr or 0.02C cut off
- 3.6. Max. Continuous Discharge Current: 1CmA
- 3.7. Discharge Cut-off Voltage: 3.0V±0.05V
- 3.8. Cell Dimensions (Refer to the attached drawing)
- | | | |
|------------|-----------------------------------|--|
| Thickness: | 5.8mm | (Measured with weighing 300gf at 25±2°C) |
| Width: | 34.7mm | (Measured with weighing 300gf at 25±2°C) |
| Length: | 43.5mm (not including tab length) | |
- 3.9. Cell Weight: approx 20g
- 3.10. Operating Temperature
- | | |
|------------|---------------|
| Discharge: | -10°C ~ +60°C |
| Charging: | 0°C ~ +45°C |
- Storage in a 50% charged state
- | Temperature range | Duration | Typ. Capacity recovery |
|-------------------|----------|------------------------|
| -20°C - +60°C | 1month | 70%(expected) |
| -20°C - +45°C | 3months | 65%(expected) |