

Specification of Li-polymer Rechargeable Battery

Model No.: LP-454965-2P-3M

Reported by: 陈声宇 Date: Oct,28,2013

Checked by: _____ Date : Oct,28,2013

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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-454965-2P-3M

3. Ratings

- 3.1. Nominal Capacity[at 0.2C]: 2800mAh (min);
3000mAh (typical)
- 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: 0.5C(1400mA)
- 3.5. Charging Method: constant current constant voltage
- Standard Charge: 0.2(560mA) (constant current) charge to 4.20V, then 4.2V (constant voltage) for 6~7hrs or 0.02C cut off
- Quick Charge: 0.5C(1400mA) (constant current) charge to 4.20V, then 4.2V (constant voltage) for 3.5hr or 0.02C cut off
- 3.6. Max. Continuous Discharge Current: 2CmA(5600mA)
- 3.7. Discharge Cut-off Voltage: 2.5V±0.062V
- 3.8. Battery Dimensions (Refer to the attached drawing)
- 3.9. Cell Weight: 58±3.0g
- 3.10. Operating Temperature
- Discharge: -20°C ~ +60°C
- Charging: 0°C ~ +45°C
- Storage in a 50% charged state
- | Temperature range | Duration | Typ. Capacity recovery |
|-------------------|----------|------------------------|
| -20°C - +80°C | 10 days | 50%(expected) |
| -20°C - +60°C | 1month | 75%(expected) |
| -20°C - +45°C | 3months | 70%(expected) |
| -20°C - +25°C | 1year | 80%(expected) |