



# Specification

## of

# Li-polymer Rechargeable Battery

Model No.: LP-422339-PACK

Reported by: 陈声宇 Date: June,28,2012

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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. The specification only applies to DUBILIER'S Li-ion battery.

## 2. Product Model

Battery type: Rechargeable Lithium-ion Polymer Battery

Battery Model: LP-422339-PACK

## 3. Ratings

- 3.1. Nominal Capacity[at 0.2C]: 350mAh (min );  
370mAh (typical )
- 3.2. Nominal Voltage: 3.7V (average voltage at 0.2C discharge)
- 3.3. Charging Voltage: 4.20  $\pm$ 0.05V
- 3.4. Max. Charging Current: 0.5C(10~45°C)
- 3.5. Charging Method: constant current constant voltage
- Standard Charge: 0.2C(constant current) charge to 4.20V, then 4.2V (constant voltage) for 6~7hrs or 0.02C cut off
- Quick Charge: 0.5C(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: 1C (at 25  $\pm$  5°C)
- 3.7. Discharge Cut-off Voltage: 2.75V
- 3.8. Battery Dimensions (Refer to the attached drawing)
- 3.9. Weight: 8  $\pm$  1g
- 3.10. Operating Temperature
- Discharge: -20°C ~ +60°C
- Charging: 0°C ~ +45°C (at 0.2C charging current)
- Storage in a 50% charged state
- Do NOT storage at fully charged state (4.2V) for a long period of time; Over long storage periods batteries should be cycled every 90 days, The method is to do a charge-discharge cycle with standard method.
- | Temperature range | Duration | Typ. Capacity recovery |
|-------------------|----------|------------------------|
| -10°C - +80°C     | 10 days  | 50%(expected)          |
| -10°C - +60°C     | 1month   | 75%(expected)          |
| -10°C - +45°C     | 3months  | 70%(expected)          |
| -10°C - +25°C     | 1year    | 80%(expected)          |
- Remark:  $\leq$ 85%RH