

SPECIFICATION OF PRODUCT

1. Battery Type and Model

1.1 Battery Type: Lithium Ion Polymer Battery

1.2 Battery Model: 053040

1.3 Outer Dimension: 5.0±0.2(T) x 30±0.5(W) x 40±0.8(L) mm

2. Performance

| Item | Specification | Remark |
|------------------------------------|----------------|--|
| Nominal Capacity | 600mAh | 0.2C discharge |
| Nominal Voltage | 3.7V | |
| End Voltage | 2.75V | |
| Charging Current (Std.) | 0.2CA (=120mA) | 0 to +40°C |
| Charging Current (Max.) | 1.0CA (=600mA) | 0 to +40°C |
| Charging Voltage | 4.2±0.03V | |
| Discharging Current (Std.) | 120mA | -20 to +60°C |
| Discharging Current (Max) (Max) | 600mA | -20 to +60°C |
| Internal Resistance | <80mΩ | |
| Weight | 15g | |
| Storage Temperature | <1 month | -20 to +60°C |
| | <3 month | -20 to +45°C |
| | <12month | -20 to +20°C |
| | | Percentage of recoverable Capacity 80% |

3. Electrical characteristics Test

| Item | Test Method | Criterion |
|-------------------------------|--|-----------|
| 3.1 0.2C Discharging Capacity | Within 1 hour after fully charged, discharge at 0.2CmA continuously down to end voltage 2.75V. Recording discharging time. | ≥ 300min |
| 3.2 1.0C Discharging Capacity | Within 1 hour after fully charged, discharge at 1.0CmA continuously down to end voltage 2.75V. Recording discharging time. | ≥ 51min |
| 3.3 Cycle Life | Charge at 1.0CmA continuously down to voltage 4.2V, then charge at voltage continuously down to end current 0.05CmA, 10minutes later, Discharge at 1.0CmA continuously down to voltage 2.75V.After 300 cycles, recording discharging time. | ≥ 42min |

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| 3.4 High Temperature | After fully charged, stored for 4 hours at 60°C, Discharge at 0.2CmA continuously down to end voltage 2.75V. Recording discharging time. | ≥ 270min |
| 3.5 Low Temperature | After fully charged, stored for 4 hours at -10°C, Discharge at 0.2CmA continuously down to end voltage 2.75V. Recording discharging time. | ≥ 240min |
| 3.6 Storage Characteristics | After fully charged, stored for 30 days at 20±5°C, Recording discharging time according to 3.1. | ≥ 240min |

4. Safety Performance

| Item | Test Method | Criterion |
|---------------------------------|--|--------------------------|
| 4.1 Over-charge Test | Fully discharged battery, charge at 0.2CmA for 12.5 hours, at 20±5°C. | No explode or catch fire |
| 4.2 Exterior short-circuit Test | After standard charge, the battery is to be short-circuited by connecting the positive and negative terminals of the battery with copper wire having a maximum resistance load of 50mΩ, Keep 6 hours. | No explode or catch fire |
| 4.3 Drop Test | Drop the battery in the shipment condition from 10m height onto 5cm or thicker concrete with p-tile on it one time at 20±5°C. | No explode or catch fire |
| 4.4 Heating Test | A battery is to be heated in a gravity or circulating air oven. The temperature of the oven is to be raised at 5±2°C per minute to a temperature of 150±2°C and remain for 30 minutes at that temperature before the test is discontinued. | No explode or catch fire |