

SPECIFICATION OF PRODUCT

1. Battery Type and Model

1.1 Battery Type: Lithium Ion Polymer Battery

1.2 Battery Model: 053759

1.3 Outer Dimension: 4.8±0.2(T) x 36.5±0.5(W) x 59±0.8(L) mm

2. Performance

Item	Specification	Remark
Nominal Capacity	1000mAh	0.2C discharge
Nominal Voltage	3.7V	
End Voltage	2.75V	
Charging Current (Std.)	0.2CA (=200mA)	0 to +40°C
Charging Current (Max.)	1.0CA (=1000mA)	0 to +40°C
Charging Voltage	4.2±0.03V	
Discharge Current (Std.)	200mA	-20 to +60°C
Discharge Current (Max.)	2000mA	-20 to +60°C
Internal Resistance	<40mΩ	
Weight	About 20g	
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 1 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