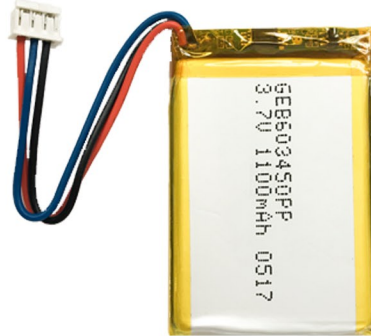


## GEB603450P

Lithium Ion Polymer rechargeable battery 1100mAh 3.7V



## Product Specifications

Charge Voltage: 4.2V

Nominal Voltage: 3.7V

Nominal Capacity: 1100mAh

Charge Current:

- Standard Charge: 0.2C
- Rapid Charge: 1.0C

Charging Time:

- Standard Charging: 3 hours
- Rapid Charge: 2 hours

Max. Charge Current: 1.0C

Max Discharge Current: 1.5C

Discharge Cut-off Voltage: 3.0V

Operating Temperature:

- Charging: 0°C ~ 45°C
- Discharging: -20° ~ 55°C

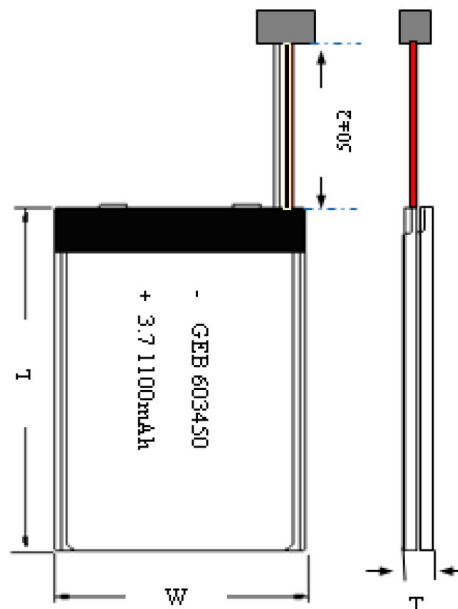
Storage Temperature: -5° ~ +35°C

Cell Weight: Approximately 19.5g

Cell Dimension:

- Length: 50.5mm Max (Not including tabs)
- Width: 34.5mm Max
- Thickness: 6.2mm Max

## Battery Pack Dimensions



## Electrical Specifications

**Standard Charge:** Charging the cell initially with a constant current at 0.2C and then with a constant voltage at 4.2V until the charge current declines to 0.02C.

**Rated Capacity:** The capacity means the discharge capacity of the cell, which is measured with the discharge current of 0.2C with 3.0V cut off voltage after standard charge.  
Criteria:  $\geq 1100\text{mAh}$

### Cycle Life:

• Test Condition:

- Charge: 0.2c to 4.2V
  - Discharge: 0.2c to 3.0V
- $\geq 300$

**Self-discharge:** After the standard charging, store the cells under the condition as No.6.4 for 28 days and then measure the capacity with 0.2C until 3.0V  
Residual Capacity:  $>90\%$

**Initial impedance of cell:** Internal resistance measured at AC 1KHz after 50% charge  
Criteria:  $\leq 70\text{m}\Omega$

### Temperature Characteristics:

1.  $25\pm 5^\circ\text{C}$
2. Capacity comparison at each temperature, measured with constant discharge current 0.2C with 3.0V cut-off. Percentage as an index of the capacity compared with 100% at  $25^\circ\text{C}$



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## Mechanical Specifications

**Vibration Test:** After standard charging, fix the cell to the vibration table and subject to vibration cycling so that the frequency is varied at the rate of 1Hz per minute between 10Hz and 55Hz, the excursion on the vibration is 1.6mm. The cell will be vibrated for 30 minutes per axis of XYZ axes.

Criteria: No Leakage ; No Fire

**Drop Test:** The cell is to be dropped from a height of a meter onto concrete ground.

Criteria: No fire ; No leakage

Visual Inspection:

There will be no such defect as a scratch, flaw, crack or leakage, which may adversely affect the commercial value of the cell.

Standard environmental test condition:

Unless otherwise specified, all tests stated in this product. Specifications are conducted at the below conditions:

- Temperature:  $23.0 \pm 5.0^{\circ}\text{C}$
- Humidity:  $\leq 75.0\% \text{RH}$