

### Model No.: GP413048L68

**Type** : Rechargeable Lithium Ion Prismatic Cell

**Nominal Dimension (without label/sleeve)** : Width = max. 30.0 mm  
 Height = max. 48.0 mm  
 Thickness (shipment) = 4.4 mm \*  
 Thickness (after 300<sup>th</sup> cycle) = 4.7 mm

**Applications** : Recommended discharge current  
 136 to 1360 mA

**Nominal Voltage** : 3.7 V

**Capacity** : Typical: 680 mAh  
 Minimum: 650 mAh  
 When discharged at 340 mA to 2.8 V at 20 °C

**Charging Condition** : 544 mA to 4.2 V for 2.5 hrs at 20 °C

**Recommended Charging Condition in Applications** : 544 mA to 680 mA (0.8 to 1C)  
 Charge termination control recommended control parameters:  
 Taper current 0.05C at 4.2 V

**Clamped Charging Voltage** : 4.2 V +/- 0.05 V

**Service Life** : 300 cycles (80% of typical capacity)

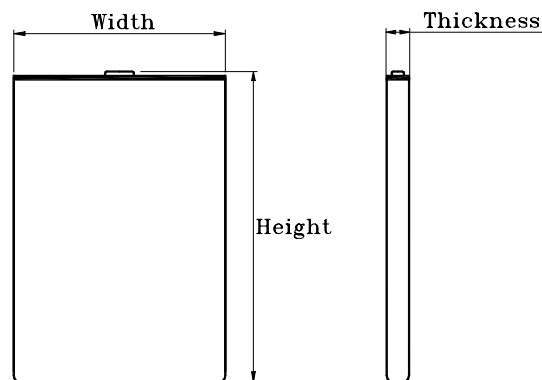
**Weight** : Approx. 14 g

**Internal Resistance** : 70 mΩ max. at 1000 Hz

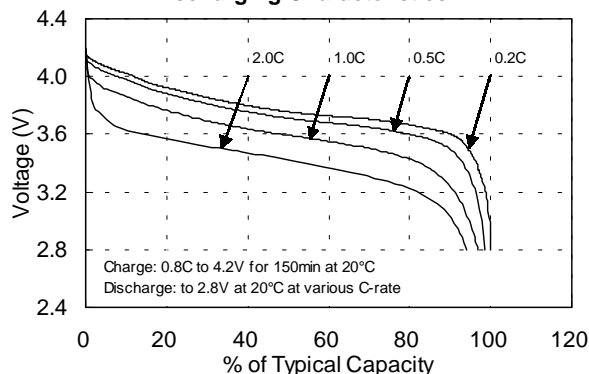
**Ambient Temperature Range** : Charging : 0 to 45 °C  
 Discharging : -30 to 60 °C \*\*  
 Storage (1 month) : -20 to 45 °C  
 Storage (6months) : -20 to 40 °C  
 Storage (1 year) : -20 to 35 °C

**Note** : \* The "Thickness (shipment)" is the maximum value without label/sleeve of the standard charging condition (30% state of charge).

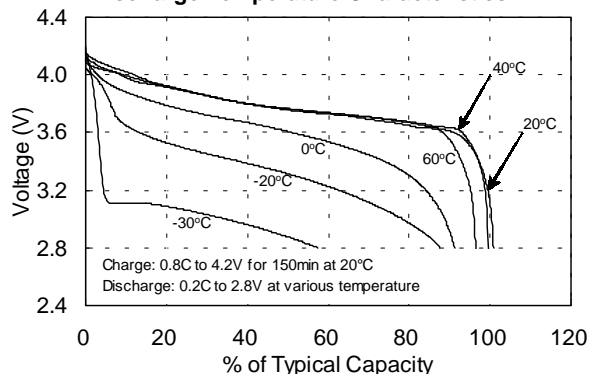
**Precaution** : \*\* 60 °C is only applied during 1C or lower discharging current



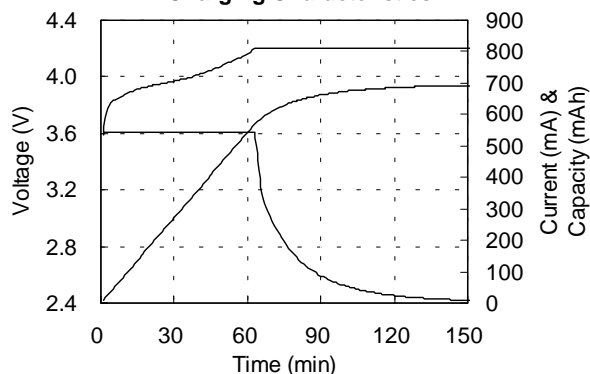
**Discharging Characteristics**



**Discharge Temperature Characteristics**



**Charging Characteristics**



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For detail information, please refer to the relevant product specification.

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