DATA SHEET

PLM18650

- Rechargeable
- Up to 5000 cycles
- High power output
- Charging possible at extreme temperatures

1 Performance Data

System	Long-life rechargeable lithium ion battery	
Size	max. 18.5 mm in diameter max. 65.3 mm in length	
Nominal voltage	3.6V	
Nominal Capacity	1100mAh (At 20±5 °C, after standard charging, 550mA discharge to 2.0V.)	
Max. continuous discharge current	4 A	
Max. pulse output power	48 W	
Discharge end voltage	2.5 V (2.0V at lower temperature)	
Max. charge voltage	4.1 V	
Max. charge current	200 mA	50 mA
Temperature range	−20 °C ... +50 °C	−40 °C ... +85 °C
Impedance @ 1KHz, RT	max. 60 mΩ	
Nominal energy	3.9 Wh	
Weight	max. 43 g	
Cycling performance	Over 1000mAh, 20±5 °C, after standard charging and discharging for 100 cycles.	
Capacity in different temperature	≥ 700mAh(-20°C)	≥ 1100mAh(60°C)

2 Cell /Battery Protection (to be applied by the user)

Over charge protection:

Cell voltage should not be higher than 4.2V.

Over discharge protection:

Cell voltage should not be lower than 2.0V.

3 Safety Characteristics

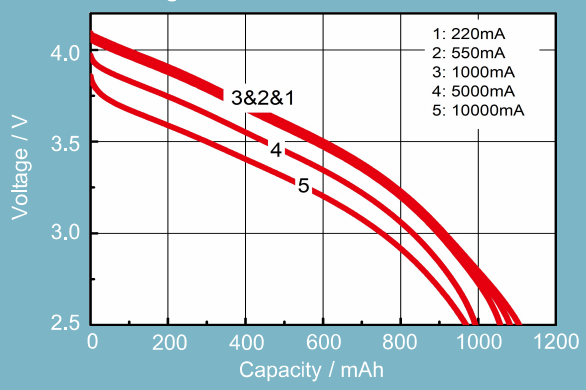
The cells successfully passed the following safety tests:

- Crush.
- Impact.
- Short circuit
- Vibration Test
- Over charge up to 1A,6V.

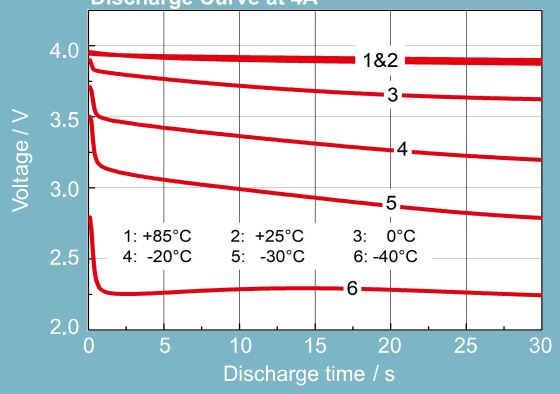
4 Battery pack assembly and usage considerations

- For 2 cells or more in series, voltage shall be monitored on each cell.
- For more than 2 cells in parallel, maximum charge current shall be limited to 550mA for the whole pack.

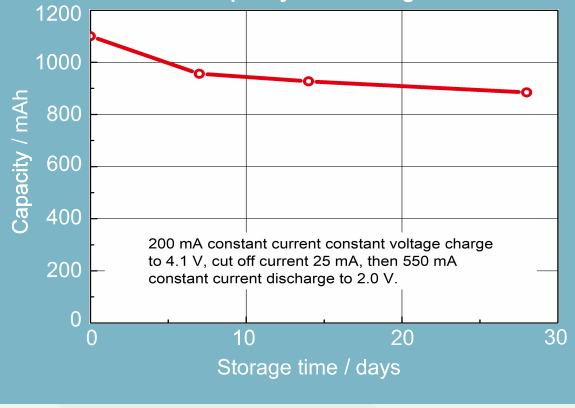
Discharge Curve at +20 °C



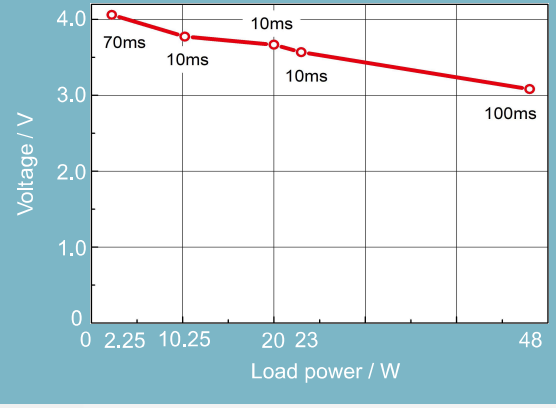
Discharge Curve at 4A



Reversible capacity after storage at +85 °C



Voltage under different loads at +20 °C



Any values given here are for informational purposes only. They also depend on actual conditions of use and are not warranties of future performance. Subject to change.