

**MODEL: LP053450**

**CHEMISTRY: LITHIUM-ION**

**SYSTEMS: LITHIUM-ION RECHARGEABLE**

**GENERAL SPECIFICATIONS**

Rated Working Voltage:	3.7V @ 1CmA	Charging Voltage:	4.20V ± 0.05V
Rated Capacity:	990mAh @ 0.2CmA discharge	Maximum Charge Current:	1CmA
Cycle Life:	≥ 80% Initial Capacity@400th cycles	Standard Charge Method:	Constant Current/Constant Voltage (CC/CV) Current 0.5CmA      Voltage 4.2V End Current 20mA
Internal Impedance:	≤ 70mΩ		
Weight of Bare Cell:	19g±1g	Maximum Discharge Current:	2CmA
Dimension (max.):	T5.4mm x W33.9mm x H50.0mm	Standard Discharge:	Constant Current (CC) Current 1CmA End Voltage 3.0V
Operating Temperature:	Charge      0°C / +45 °C Discharge   -20°C / +60°C	Storage Temperature:	1 month      -20°C / +45 °C 6 months     -20°C / +35 °C

**PERFORMANCE**

Discharge Capacity @1CmA discharge to 3.0V at 25°C±5°C:	≥ 90% of Rated Capacity
High Temperature Performance @60°C±2°C at 1CmA discharge to 3.0V:	≥ 90% of Rated Capacity
Low Temperature Performance @-20°C±2°C at 0.2CmA discharge to 3.0V:	≥ 70% of Rated Capacity
Cycle Life Capacity @0.5CmA charge and 1CmA discharge to 3.0V as one cycle at 25°C±5°C:	≥ 80% of Rated Capacity @400th cycle
Open circuit voltage within one hour after charge:	≥ 4.15V

**CAUTIONS**

Avoid over-charging: charging voltage must not be over 4.25V. Charging temperature shall be at 0°C ~ +45°C range. No reverse charging.	Discharge current must be below 2CmA/cell. Discharge end voltage must be over 2.75V. Discharge temperature range shall be at -20°C ~ 60°C.
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**SAFETY TESTS**

Our Lithium-ion batteries have been tested in compliance with international standards for safety and certain conditions of abusive use. Those tests include:

- Drop test
- Short circuit test
- Airproof test
- Overcharging test
- Hot box test
- Pressing test

Our Lithium-ion cells have proved safe and reliable under the test conditions.

Product specifications are subject to change without prior notice. Please contact BiPOWER for update information.