

MODEL: HR18650

CHEMISTRY: LITHIUM-ION

SYSTEMS: LITHIUM-ION RECHARGEABLE

GENERAL SPECIFICATIONS

Rated Working Voltage: 3.6V @0.2CmA	Charging Voltage: 4.20V ± 0.05V
Rated Capacity: 1300mAh @0.2CmA discharge	Maximum Charge Current: 1CmA Standard Charge Method: Constant Current/Constant Voltage (CC/CV) Current 1CmA Voltage 4.2V End Current 26mA
Cycle Life Capacity: ≥ 70% Initial Capacity@400th cycles	
Internal Impedance: ≤ 20mΩ	Maximum Discharge Current: 10CmA (13A) Standard Discharge: Constant Current (CC) Current 1CmA End Voltage 2.5V
Weight of Bare Cell: 44g max.	
Dimension (max.): Diameter 18.15mm x Height 65.3mm	
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 @10CmA (13A) discharge to 3.0V at 25°C ±5°C:	≥ 90% of Rated Capacity
High Temperature Performance @60°C±2°C at 0.2CmA discharge to 3.0V:	≥ 90% of Rated Capacity
Low Temperature Performance @-20°C±2°C at 0.2CmA discharge to 3.0V:	≥ 50% of Rated Capacity
Cycle Life Capacity @1CmA charge and 1CmA discharge to 2.5V as one cycle at 25°C±5°C:	≥ 70% of Rated Capacity @400th cycle Internal Impedance ≤ 50mΩ

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 not be over 10CmA/cell. Discharge end voltage must be over 2.5V. Discharge temperature range shall be at -20°C ~ 60°C.
--	---

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
- Nail 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.

