

**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
Cycle Life Capacity:	≥ 70% Initial Capacity@400th cycles	Standard Charge Method:	Constant Current/Constant Voltage (CC/CV) Current 1CmA      Voltage 4.2V End Current 26mA
Internal Impedance:	≤ 20mΩ	Maximum Discharge Current:	10CmA (13A)
Weight of Bare Cell:	44g max.	Standard Discharge:	Constant Current (CC) Current 1CmA End Voltage 2.5V
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.
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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
- 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.