MODEL: P043041 CHEMICSTRY: LITHIUM-ION SYSTEMS: LITHIUM-ION RECHARGEABLE

GENERAL SPECIFICATIONS

Rated Working Voltage:	3.7V @0.2CmA	Charging Voltage:	4.20V ± 0.05V
Nominal Capacity:	510mAh @0.2CmA discharge	Maximum Charge Current:	1CmA
Minimum Capacity:	500mAh @0.2CmA discharge	Standard Charge Method:	Constant Current/Constant Voltage (CC/CV) Current 0.5CmA Voltage 4.2V End Current 20mA
Cycle Life:	≥ 80% Initial Capacity@400th cycles		
Internal Impedance:	≤ 70mΩ	Maximum Discharge Current:	2CmA
Weight of Bare Cell:	11g Approx.	Standard Discharge:	Constant Current (CC) Current 1CmA End Voltage 3.0V
Dimension (max.):	T4.5mm x W29.6mm x H40.7mm		
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 @-10°C at 0.2CmA discharge to 3.0V:	≥ 60% 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 Raged 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.

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.

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