

MODEL: LR18500

CHEMISTRY: LITHIUM-ION

SYSTEMS: LITHIUM-ION RECHARGEABLE

GENERAL SPECIFICATIONS

Rated Working Voltage: 3.7V @0.5CmA	Charging Voltage: 4.20V ± 0.05V
Nominal Capacity: 1400mAh @0.2CmA discharge	Maximum Charge Current: 1CmA
Minimum Capacity: 1350mAh @0.2CmA discharge	Standard Charge Method: Constant Current/Constant Voltage (CC/CV) Current 0.5CmA Voltage 4.2V End Current 0.02CmA
Cycle Life Capacity: ≥ 80% Initial Capacity@300th cycles	
Internal Impedance: ≤ 70mΩ	Maximum Discharge Current: 2CmA
Weight of Bare Cell: 32g Approx.	Standard Discharge: Constant Current (CC) Current 0.5CmA End Voltage 3.0V
Dimension (max.): Diameter 18.5mm x Height 50.0mm	
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

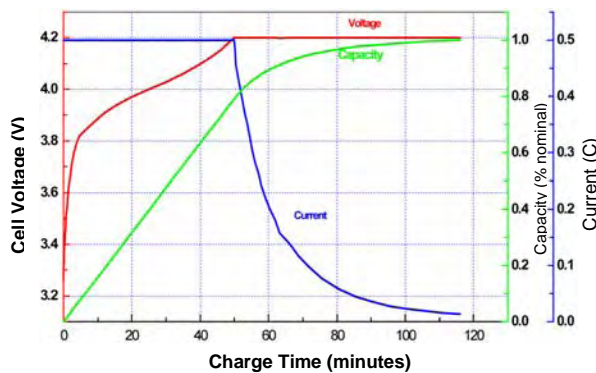
CAUTIONS

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.

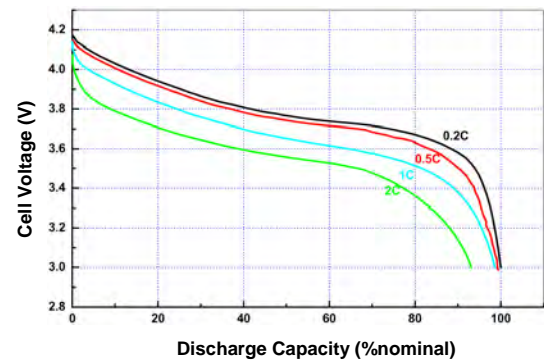
PERFORMANCE

Charge Specialties



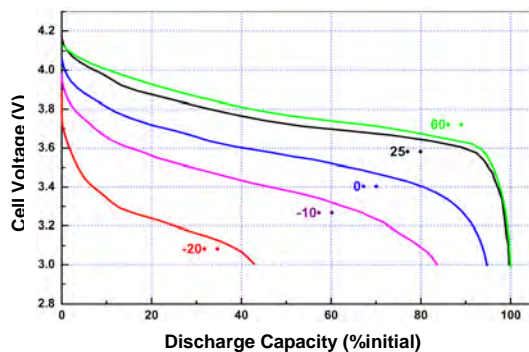
Charge: CC/CV 0.5CmA, 4.2V, 0.02CmA cut off at RT

Discharge Specialties



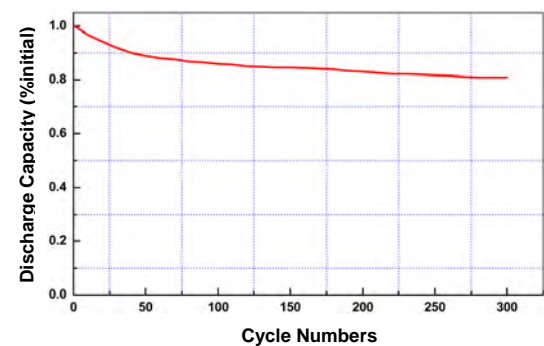
Charge: CC/CV 0.5CmA, 4.2V, 0.02CmA cut off at RT
Discharge: CC, 3.0V cut-off at RT

Temperature Specialties



Charge: CC/CV 0.5CmA, 4.2V, 0.02CmA cut off
Discharge: CC 0.2CmA, 3.0V cut off

Cycle Life



Charge: CC/CV 0.5CmA, 4.2V, 0.02CmA cut off at RT
Discharge: CC 0.5CmA, 3.0 V cut off at RT

CC - Constant Current

CV - Constant Voltage

RT - Room Temperature

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