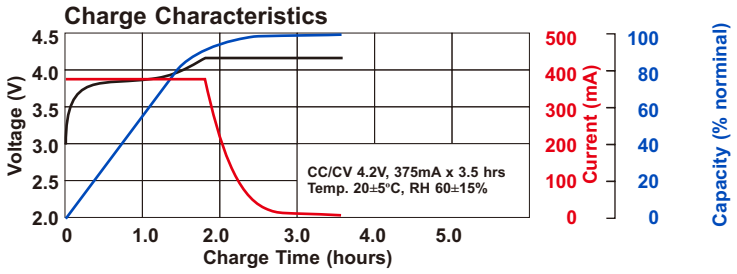
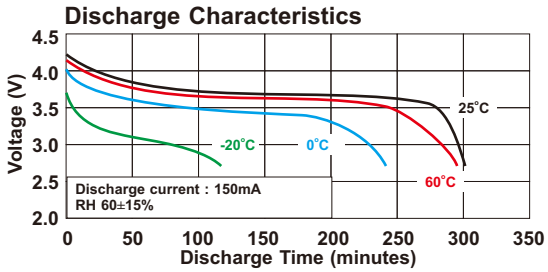
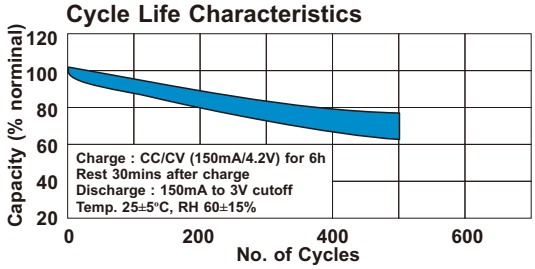
LITHIUM-ION RECHARGEABLE BATTERY

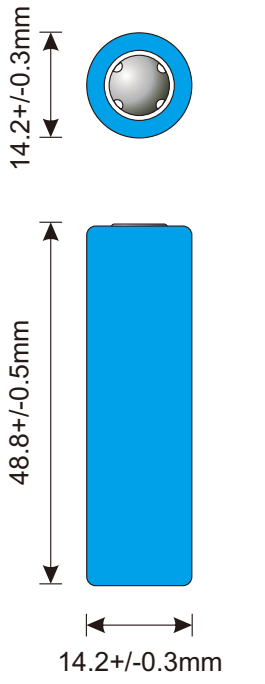
SPECIFICATIONS

Model	:	LI14500
Description	:	Lithium-Ion rechargeable battery
Nominal Capacity	:	750 mAh (Min. 712.5) at 150mA continuous discharge (new cell, temp. 20±5°C)
Nominal Voltage	:	3.7 Volt (After charge)
Cut-Off Voltage	:	3.0 Volt
Approximate Weight	:	18g (bare cell)
Internal Impedance	:	<80mΩ per cell (bare cell with 1KHz AC testing at full charge)
Cycle Life	:	Typ. 500 standard charge/discharge cycles, ~70% of nominal capacity
Charging	:	Using dedicated CC/CV (4.2+/-0.03V) battery charger only Charging with CC (Constant Current) to 4.2V, then charge with CV (Constant Voltage) till charge current <7.5mA Standard - 150 mA x 6 hours (Ref.) Quick - Max. 375 mA x 3.5 hours (Ref.)
Discharging	:	Max. discharge current 750mA Discharge capacity varies with discharge current
Operating Temperature	:	Standard charge 0°C to 45°C (battery performance varies with temperature) Discharge -20°C to 60°C (battery performance varies with temperature)
Storage Conditions	:	-20°C to 35°C, RH 65±15% (within 1 months) 20±5°C, RH 50-70% (long term)
Battery Maintenance	:	Battery without PCM to be recharged every 6 months Battery with PCM to be recharged every 3 months
IQC Recommendations	:	Other IQC standard must be mutually agreed. IQC Date : within 30 days after shipment of battery Outer Dimensions : with caliper (Sampling S-4 AQL 2.5) Appearance : visual (Sampling G-II AQL 2.5) Open Circuit Voltage : voltmeter (Sampling S-4 AQL 0.65) Capacity : 170mA continuous discharge after standard charge at 20±5°C









Single cell (with sleeve)

Information is for reference only and is not construed as warranties either expressed or implied, of future performance. Performance varies with time, discharge and storage condition.. 1 year limited guarantee against manufacturing defects. Other problem caused by misuse, mishandling of cell, or malfunction of equipment, is not under the warranty.

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PROPER USE AND HANDLING

Customer of lithium ion battery should employ appropriate cautions in order to obtain optimum performance and safety.

Charging	:	Charging current should less than the maximum charging current specified in the specification Charging voltage must up to the voltage specified in the specification Do not charge battery over the specified time in the specification Charging temperature should be within the specified range in the specification Reverse charging should be strictly prohibited Improper charging may generate heat, smoke, rupture or flame, and cause damage to the battery
Discharging	:	Discharging current should be less than the maximum discharging current specified in the specification Discharging temperature should be within the specified range in the specification Do not over discharge the battery below 2.75V/cell Over discharge may occur by self-discharge if the battery is left for a very long time without any use Improper discharge may cause loss of performance
Storage	:	Storage temperature should be within the specified range in the specification Storage is recommended in low humidity, nop corrosive gas atmosphere Long term storage may cause loss of capacity
Cycle Life	:	Cycle life differs by conditions of charging, discharging, operating temperature and/or storage condition Level of capacity differs by cycles of battery used
Product Design	:	Do not solder directly on bare cell Battery should be positioned far from heat source and heat components Appropriate shock absorber should be equipped to minimize shock on the battery Protection circuit against overcharge, over discharge, over current should be equipped to insure safety in case of misuse Battery should be designed to connect only to specified charger and system Reverse connection of battery should be avoided in system design Improper product and system design may cause loss of battery performance
Product Assembly	:	Battery cell should be inspected visually before product assembly to avoid usage of damaged cell (for example, sleeve damage, battery distortion, or leaking) Excessive force on the battery terminals and battery surface should be avoided Precaution should be taken when battery is moved / transported to other place Do not disassembly, short-cutcuit, incinerate, immersion in water, and mix use of battery Battery should be disposed in discharged state Improper handling may cause loss of battery performance
Warning	:	The battery may present risk of fire and chemical burn if mistreated. Keep away battery from children.

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