SPECIFICATIONS

Model	: LIP605060
Description	: Lithium-Ion Polymer rechargeable battery (RoHS compliant)
Dimension	: Max. 6.3 x 50.8 x 63.0mm
Nominal Capacity	: 1800mAh (Min. 1710mAh) at 360mA rate discharge to 3.0V at 25°C 3 cycles allowed for incoming inspection Discharge capacity varies with discharge current and temperature
Nominal Voltage	: 3.7Volt (after charge)
Cut-Off Voltage	: 3.0Volt
Approximate Weight	: 35g
Internal Impedance	: $<60m\Omega$ (bare cell with 1KHz AC testing at full charge)
Cycle Life	: 100 standard charge/discharge cycles > 80% (1440mAh) capacity 500 standard charge/discharge cycles > 70% (1260mAh) capacity
Charging	: Using dedicated CC/CV (4.20±0.03V) battery charger only Charging with CC (Constant Current) to 4.20V, then charge with CV (Constant Voltage) till charge current <90mA Standard Charge Current 360mA at 25°C below 8 hours Max. Charge Current 900mA at 25°C below 3 hours
Discharging	: Standard Discharge Current 360mA at 25°C Max. Discharge Current 1800mA at 25°C (Conditions apply)
Temperature Range	: Charge 0°C to 45°C Discharge -20°C to 60°C Storage 10°C to 25°C (Recommended) -10°C to 40°C (within 1 month) -5°C to 35°C (within 3 months)
Warranty	: Limited warranty is provide against defects of poor workmanship for 12 months from date of shipment. Problem caused by misuse, mishandling, malfunction of equipment, or mix-use of cell is not under this warranty. Replacement of cell is limited to 1-to-1 only
Storage Characteristic	: Long term storage may cause loss of capacity. Capacity recoverable related to time of storage. Cell is recommended to store with 45% capacity charged, temperature 20 ± 5 °C, and relative humidity 45%-7. After max. 12 months storage, capacity recovery will be > 70% initia capacity (~1260mAh), after 5 recovery charge/discharge cycles.
Appearance	: No scratch, rust, discoloration, leakage which may adversely affect commercial value of the cell
Standard Test Condition	 Unless otherwise specified, all test are conducted at temperature 20± and relative humidity 60±15% The ammeter and voltmeter with accuracy grade 0.5 or higher The slide caliper with scale 0.01mm The impedance meter with AC 1kHz measurement

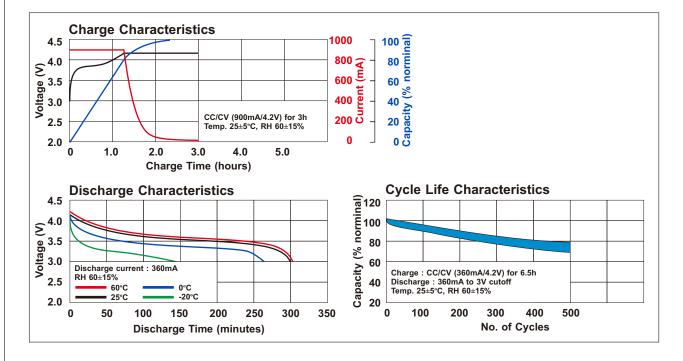
misuse, mishandling of cell, or malfunction of equipment, is not under the warranty.

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Capacity Retention	Discharge measured after the cell is stored for 28 days after stands charge. Capacity retention $\geq 85\%$ initial capacity (~1530mAh)	ard
Maintenance Charging	Maintenance charging is required for storage over 3 months or wh battery open circuit voltage below 3.8V. Prolonged storage witho maintenance may result is battery gassing and loss of performance	ut
Remarks :	Charging voltage shall be less than 4.20V/cell. It must never exce 4.25V/cell.	ed
Ex-Factory Condition	As per air shipment regulations, the battery must be shipped at a S Charge (SoC) $\leq 30\%$. We recommend customer to arrange supple charging of the battery after receiving the batteries.	
External Short Circuit Test	No fire, no explosion for short-circuiting of the positive and negative terminals of a fully charged cell with a total external resistance of $80m\Omega\pm20m\Omega$ at $20\pm5^{\circ}$ C.	
Free Fall Test	No fire, no explosion for dropping a fully charged cell 3 times from height of 1m at random orientations onto a concrete floor at $20\pm5^{\circ}$	
Thermal Abuse Test	No fire, no explosion for placing a fully charged cell in an oven we temperature raised at a rate of 5° C/min $\pm 2^{\circ}$ C/min to a temperature 130° C $\pm 2^{\circ}$ C.	ith
Crush Test	No fire, no explosion for crushing a fully charged cell between tw surfaces with a force of $13kN\pm1kN$ at 20 ± 5 °C until maximum force been applied, or an abrupt voltage drop of 1/3 of the original volta been obtained, or 10% of deformation has occurred.	e has
Over-charging Test	No fire, no explosion for charging a fully discharged cell at a cons current of 3.6A with a voltage limit of 4.8V for 8 hours.	tant
Forced Discharge Test	No fire, no explosion for reverse charging a fully discharged cell a constant current of 1.8A for 90 min. at 20±5°C.	it a



Information is for reference only and is not construed as warranties either expressed or implied, of future performance. Performance varies with time, usage 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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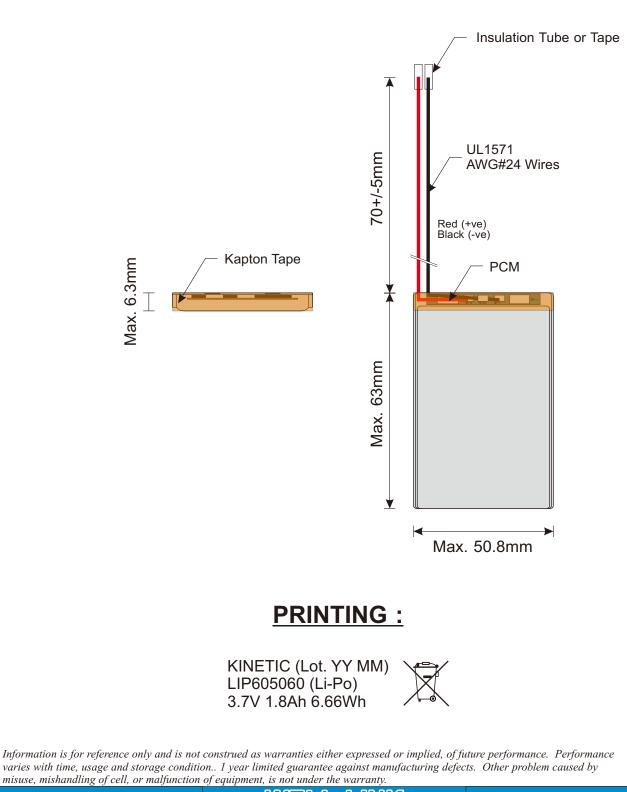
SPECIFICATIONS

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

Charging	Charging current, voltage, time and temperature should be within t specified in the specification. Reverse charging should be strictly prohibited. Improper charging may generate heat, smoke, rupture or flame, and cause leakage or damage to the cell and personal injury.	
Discharging	Discharging current, voltage and temperature should be within the specified in the specification. Short circuit and over discharging should be strictly prohibited. Over discharge may occur by self-discharge if the cell is left idle for time, or by leakage current of equipment. Improper discharging may generate heat, smoke, rupture or flame, may cause leakage or damage to the cell and personal injury.	or a long
Storage	Storage voltage, time, temperature and relative humidity should be the limit specified in the specification. Storage is recommended in temperature, low humidity, no corrosive gas atmosphere. Long term storage may cause permanent loss of capacity.	
Cycle Life	Cycle life performance differs by conditions of charging, discharg emperature and/or storage condition.	ing,
Shipping	The cell should be checked after long term storage prior to shipme Packaging should be according to latest requirement of IATA and I	
Product Design	Do not solder directly on bare cell. Cell should be positioned far from heat source and heat component Shock absorber should be equipped to minimize shock on the cell. Protection circuit should be equipped to insure safety in case of mi and abnormal conditions. Battery should be designed to connect only to specified charger and system. Product design should be able to avoid short circuit, reverse connect vibration, shock and crush of battery.	suse d
Product Assembly	mproper product design may cause damage and personal injury. Battery cell should be inspected visually before product assembly	to avoid
-	usage of damaged cell (for example, sleeve damage, battery distort eaking). Excessive force on the battery terminals and battery surface should avoided. Precaution should be taken to avoid short circuit of cell. Precaution should be taken when cell is moved / transported to othe Battery pack should be assembled by cells from same batch, with s capacity, voltage, internal resistance and charge level.	tion, or 1 be er place.
Warning	The cell may present risk of fire and chemical burn if mistreated. Do not disassembly cell, immersion in water and dispose in fire. Do not use cell with unusual conditions such as odors or leakage or Cell should be disposed in discharged state. Improper handling may cause damage and personal injury. Keep the cell away from children.	heat.
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PRODUCT DRAWING



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