SPECIFICATIONS

Model : LIP702025.1

Description : Lithium-Ion Polymer rechargeable battery (RoHS compliant)

Dimension : 7.3 x 21.0 x 28.0mm

Nominal Capacity : 300mAh (Min. 285) at 60mA rate discharge to 3V at 25°C

Nominal Voltage : 3.7 Volt Cut-Off Voltage : 3.0 Volt Approximate Weight : 7g

Internal Impedance : $<180 \text{m}\Omega$ (New bare cell, with 1KHz AC testing at full charge)

Cycle Life : Over 500 standard charge/discharge cycles

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 < 3.0 mA

Max. 150mA x 3.5 hours (Ref.)

Discharging : Max. 150mA continuous at 25°C (Conditions apply)

Max. 300mA pulse at 25°C (Conditions apply)

Temperature Environment : Charge 0°C to 45°C

Discharge -20°C to 60°C

Storage -20°C to 20°C (1 year)

-20°C to 45°C (3 months) -20°C to 60°C (1 month) 10°C to 25°C (Recommended)

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

Long Term Storage : Long term storage may cause loss of capacity.

PCM Specification : Over current detection current 0.5A-1.5A (for reference only) Over current detection delay time <=11ms

Over charging protection 4.325V-4.375V per cell

Over discharging protection 2.25V-2.35V per cell

Operation static current Max. 10uA

Initial impedance $\leq 70 \text{m}\Omega$ per board

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

25+/-5°C 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

Standard Charge : Charge at 60mA constant current until 4.20V. Then charge at

constant voltage of 4.2V with taper charge current. Charging time

is 6.5 hours (ref)

Standard Discharge : Discharge with current 60mA to 3V within 1 hour after standard

charge

Initial standard discharge capacity >= 285mAh (3 cycles allowed)

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. I 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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Model: LIP702025.1
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SPECIFICATIONS

Internal Impedance

(Bare cell)

: Measured at AC 1kHz within 1 hour after standard charge

Initial internal impedance $\leq 180 \text{m}\Omega$

: After 100 standard charge/discharge cycles plus 1 day Cycle Life

Capacity >= 240mAh

Capacity Retention : Discharge measured after storage for 28 days after standard charge

Initial capacity retention >= 255mAh

Maintenance Charging : Maintenance charging required for storage over 6 months or when

battery open circuit voltage below 3.8V. Prolonged storage without maintenance may result is battery gassing and loss of performance.

: Charging voltage shall be less than 4.2V/cell. It must never exceed Remarks:

4.25V/cell.

Ex-Factory Condition : As per air shipment regulations, the battery must be shipped at a

State of Charge (SoC) $\leq 30\%$. The OCV at this SoC ≥ 3.6 V. We recommend customer to arrange supplementary charging of the

battery after receiving the batteries.

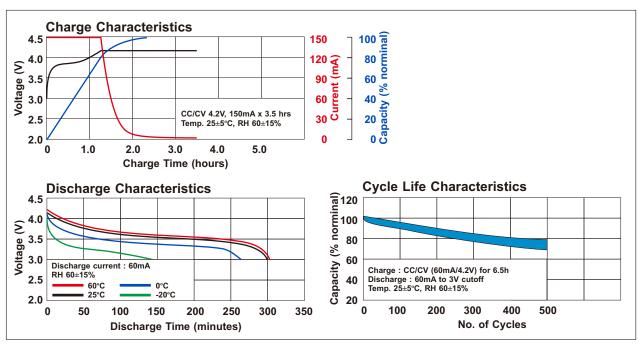
Drop Test : No fire, no explosion for dropping onto 18-20mm think oak-board

from 1.0m height at a random direction 6 times

Vibration Test : No fire, no explosion for vibrating along 2 mutually perpendicular

axes with total excursion of 1.8mm and with frequency cycling

between 10Hz and 55Hz by 1Hz/min



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Model: LIP702025.1 Version: 2.20

SPECIFICATIONS

Customer of lithium ion polymer 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 2.0V/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

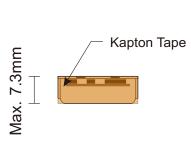
: The battery may present risk of fire and chemical burn if mistreated. Keep away battery from children.

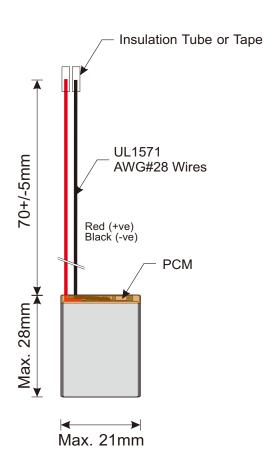
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PRODUCT DRAWING





PRINTING:

KINETIC (Lot. YYMM) LIP702025.1 (Li-Po) 3.7V 300mAh 1.11Wh



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