SPECIFICATIONS

Model : LIP745690P/2S

Description : Lithium-Ion Polymer rechargeable battery, Power Type

(RoHS compliant)

Dimension : 7.4x56x90mm (bard cell)

Nominal Capacity : Typ. 3550 mAh (Min. 3400) at 710mA discharge to 5.5V at 25°C

Nominal Voltage : 7.40 Volt Cut-Off Voltage : 5.50 Volt Approximate Weight : 160g

Internal Impedance : $<6m\Omega$ per bare cell (1KHz AC testing at full charge)

Cycle Life : Over 100 @20C discharge at 25°C

Charging : Using dedicated CC/CV (8.40+/-0.03V) battery charger only

Charging with CC (Constant Current) to 8.40V, then

charge with CV (Constant Voltage) till charge current <177.5mA

Standard - 1775 mA x 3 hours (Ref.)

Quick - Max. 3550 mA x 2 hours (Ref.)

Max. continuous current 53 25A (15C) at 25°C

Discharging : Max. continuous current 53.25A (15C) at 25°C

Max. burst current 106.5A (30C, conditions apply) at 25°C

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 22A-35A

SD5690-2S Over charging protection 4.26V-4.32V Over discharging protection 2.9V-3.1V

Over discharging protection 2.9V-3.1V
Over discharge detection delay time 115ms-173ms
Operation static current Max. 15uA
Initial impedance $< 20m\Omega$

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 1775mA constant current until 8.4V. Then charge at

constant voltage of 8.4V with taper charge current. Max. charging

time is 3.0 hours

Standard Discharge : Discharge with current 710mA to 5.5V within 1 hour after standard

charge

Initial standard discharge capacity >= 3400mAh (3 cycles allowed)

Information is for references only.

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SPECIFICATIONS

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

Initial internal impedance $\leq 6 \text{m}\Omega$ per single cell

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

Initial capacity retention >= 2840mAh

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

exceed 4.25V/cell.

: The cell should be shipped in 50% charged state. $OCV \ge 3.8V$ **Ex-Factory Condition**

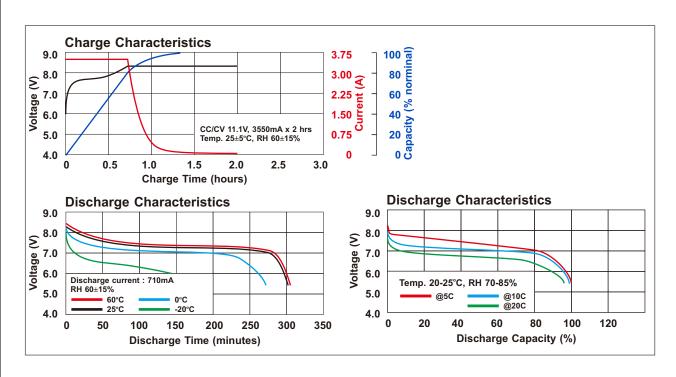
Drop Test : No fire, no explosion for dropping onto 18-20mm think oak-board

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



Information is for references only.

PROPER USE AND HANDLING

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.

Information is for references only.

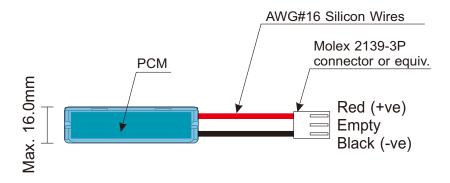
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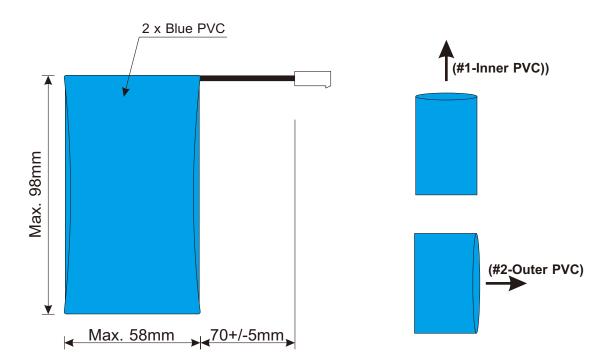
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PRODUCT DRAWING





KINETIC (Lot. YYMM) `LIP745690P/2S Li-Po 7.4V 3550mAh



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