# 3.7V Lithium Polymer Battery Data Sheet

Model:  502949

Please Find More:

https://www.fpbattery.com/3-7v-650mah-lithium-polymer-battery/

File Number:  A/FP2949-15422

File Version: 01


CONTACT

CUSTOMER SERVICE
86.755.3682.7358
sales@fpbattery.com
Hours of Operation:
9:00am-6:00pm CST, Monday to Friday

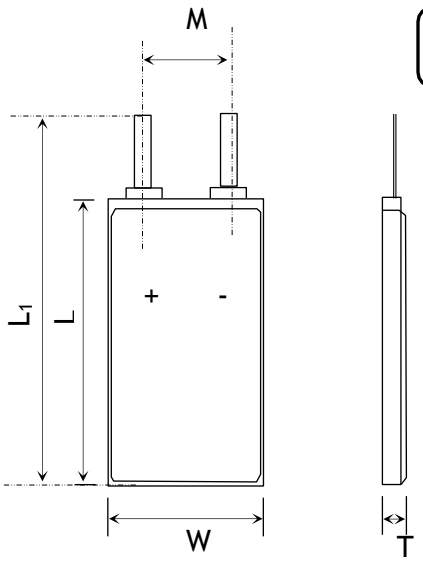
LEARN MORE ON:
https://www.fpbattery.com/

DNK POWER COMPANY LIMITED

## BATTERY SPECIFICATION

| | |
|---|---|
| Part Number | DNK 502949 |
| Nominal Voltage | 3.7 V |
| Nominal Capacity | 710 mAh |
| Internal Impedence | <60mΩ |
| Charge Voltage | 4.2V |
| Recommended Charge Current | 0.2 C |
| Allowed Max Charge Current | 0.5 C |
| Output Voltage Range | 4.2 - 2.5 V |
| Recommended Discharge Current | 0.2 C |
| Max Continuous Discharge Current | 1 C |
| Pulse Discharge Current | 3 C (10 mS) |
| Discharge Cut-off Voltage | 2.5± 0.05V |
| Cycle Life to 80% Health | 500 (0.2C, 25°C) |

**1 YEAR WARRANTY**



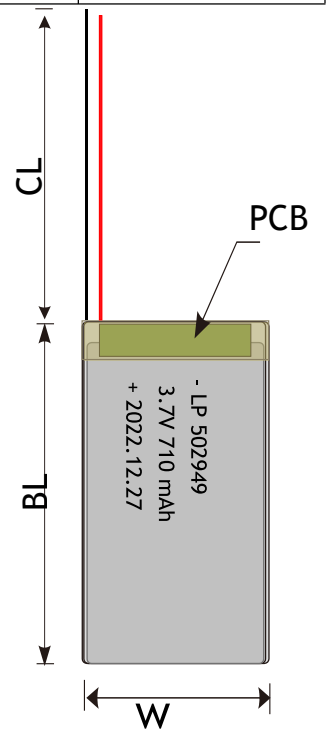

| Item | Parameter (mm) |
|---|---|
| T | 5 |
| W | 29 |
| M | 10 |
| L | 49 |
| $L_1$ | 51 |
| BL | 51 ± 1 |
| CL | 100 |

## ENVIRONMENTAL SPECIFICATIONS

| | |
|---|---|
| Charging Temperature Range | 0 - 45°C |
| Discharging Temperature Range | -20 - 60°C |
| Storage Period 1 Week | -20 - 45°C |
| Storage Period 1 Month | -10 - 45°C |
| Storage Period 6 Months | 0 - 35°C |

## BATTERY PROTECTION

| | |
|---|---|
| Over Charge | 4.275 ± 50mV |
| Over Discharge | 2.5V ± 50mV |
| Over Current | 3A to 5A |
| Short Circuit | Yes |




## MECHANICAL SPECIFICATIONS

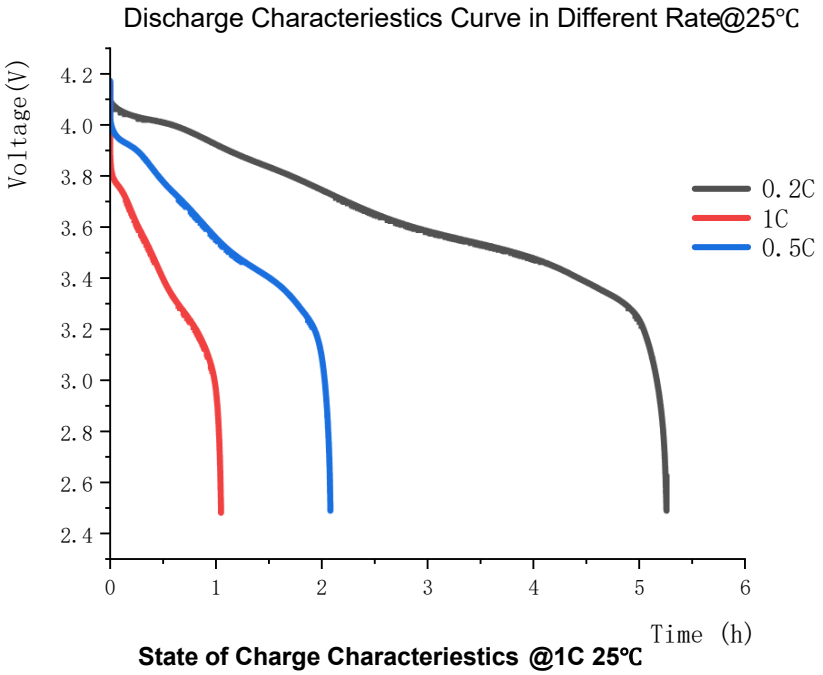
| | |
|---|---|
| Dimensions | 51x 29 x 5 mm(L*W*T) |
| Weight | Around 11 g |
| Battery Terminals | WC/ FL * |

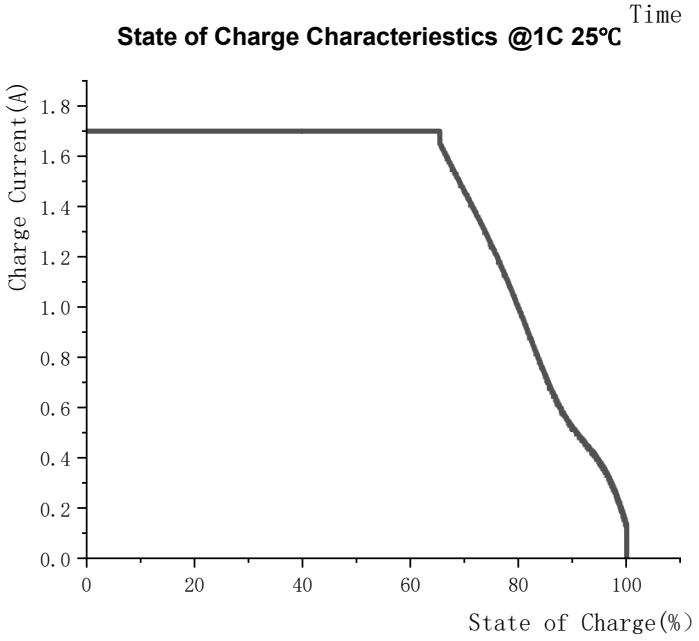
## CERTIFICATION

| | |
|---|---|
| Certification Approval | PLEASE CONSULT SALES |

* WC=With Connector FL=Flying Leads UWP=Blue Wrapped PVC BWP=Black Wrapped PVC BC= Bare Cell

# RELATIVE CURVES




# ANNOUNCEMENT

- A 1s or 1 cell LiPo battery has a nominal voltage of 3.7V. When fully charged it has a maximum voltage of 4.2V. When fully discharged, it should never go below 3.0V without risking cell damage.
- Never charge Batteries that are too hot to the touch (above 100° F). DO NOT handle Batteries until they are cool.
- ALWAYS visually inspect stored Li-Ion and LiPo batteries, at a minimum, weekly.
- l When charging LiPo batteries, they must be charged at the voltage of the number of cells in series. Example: A 5s4p pack must be charged as a 5 cell pack.
- NEVER use extension cords, power strips, or multi-plugs while charging Li-Ion and LiPo batteries or equipment. Plug the charging cord directly into a wall electrical outlet. Note: only charge one battery or device at a time per outlet.
- Do not short-circuit the battery.
- Do not crush or bend the battery.
- Do not place the battery near flammable materials.
- The battery must be discharged at less than the maximum discharge current specified in the battery instruction manual. High discharging current may reduce the discharging capacity significantly or cause over-heat.