# 3.7V Lithium Polymer Battery Data Sheet

Model: 502248

Please Find More:

https://www.fpbattery.com/3-7v-5500mah-lithium-polymer-battery/

File Number: A/FP2248-20337

File Version: 01


CONTACT

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

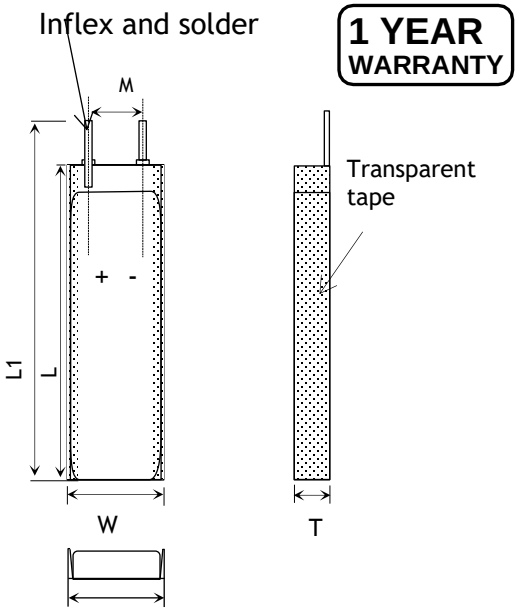
LEARN MORE ON:
https://www.fpbattery.com/

DNK POWER COMPANY LIMITED

## BATTERY SPECIFICATION

| | |
|---|---|
| Part Number | DNK 502248 |
| Nominal Voltage | 3.7 V |
| Nominal Capacity | 520 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) |

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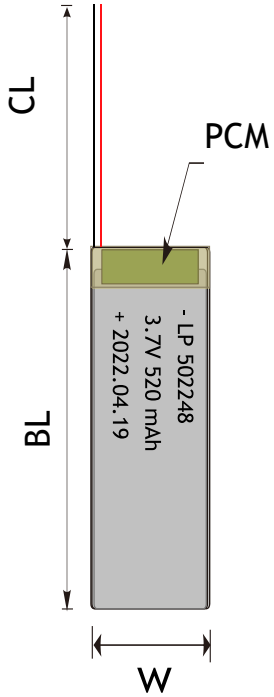

| Item | Parameter (mm) |
|---|---|
| T | 5 |
| W | 22 |
| M | 10 |
| L | 48 |
| $L_1$ | 50 |
| BL | 50 ± 1 |
| CL | 100 |

## 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 | 50x 22 x 5 mm(L*W*T) |
| Weight | 8 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

## BULK PRODUCTION ACTUAL PICTURES



BARE CELL (BC)




FLYING LEADS (FL)




WITH CONNECTOR (WC)



BLUE WRAPPED PVC (UWP)



BLACK WRAPPED PVC (BWP)

## 3.7V LIPO BATTERY OPTIONS

Special Ingredients to make batteries work from -40 -85 ° C

Discharging Current up to 100C

Popular JST,Molex,Hirose,Anderson available

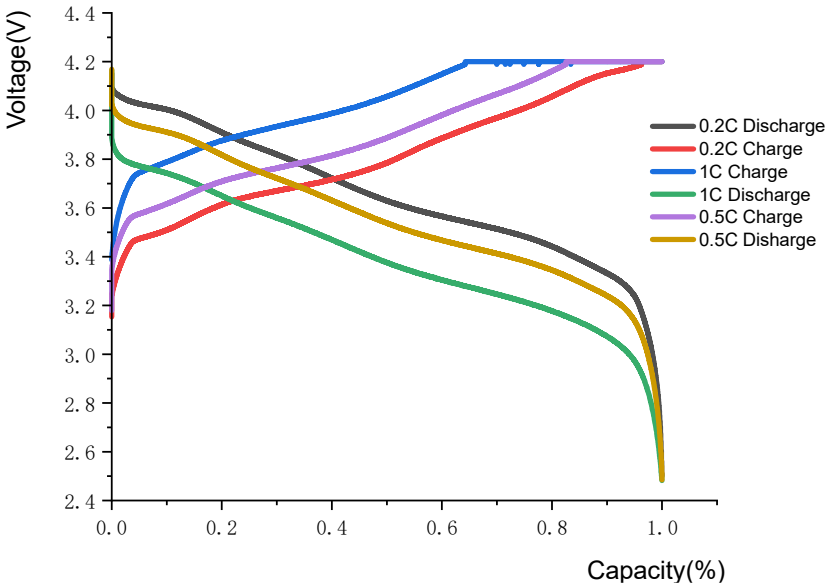
LED Power Indicator

Power Button

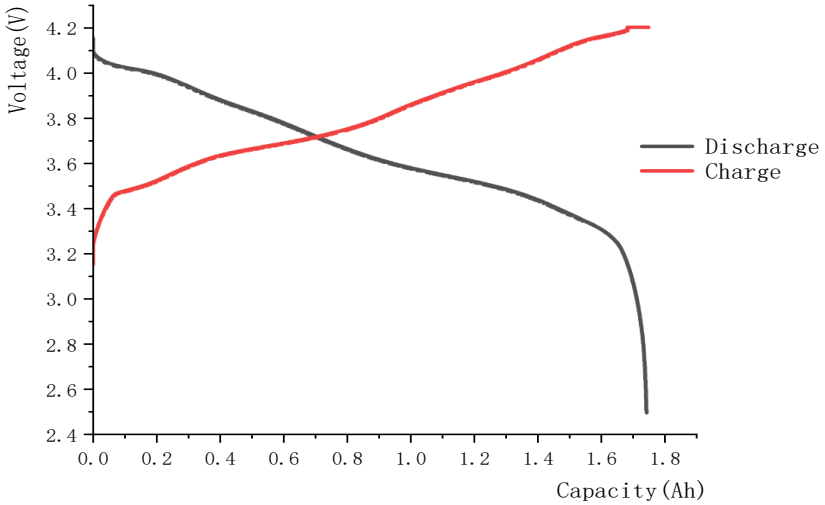
Upgrade to LifePo4 tech and life circle up to 1500

# RELATIVE CURVES

**Charge & Discharge Characteriestics in different Rate@25℃**




**Discharge VS Charge Characteristics Curve@0.2C 25℃**




# ANNOUNCEMENT

- Never, under ANY circumstances let the positive and negative battery leads touchThis can lead to cell ballooning, cell damage, fire or an explosion. If you notice your LiPo battery pack is If necessary, put the battery in a non-combustible bucket or container and observe it for 15 minutes . swelling, disconnect the charging device immediately.
- Do not mix different types of batteries or mix new and old ones together (e.g. in a power pack).
- Store it in a fire-proof container in a cool dry place.
- Set up dedicated charging area. Area must be free of combustible materials. Maintain space between charging batteries.
- ALWAYS identify and separate one-time-use batteries from rechargeable batteries.
- If taking lithium batteries on an aircraft, follow FAA and IATA rules.
- ALWAYS use the "Balance Charge" setting on your charger. If your charger does not have this feature then don't use it and invest in one that does.
- When replacing batteries, make sure to use batteries of the same type, size and brand.
- Never charge Batteries that are too hot to the touch (above 100° F). DO NOT handle Batteries until they are cool.
- ALWAYS evacuate the building to your unit’s designated outside meeting location.
- If you have dropped or damageda LiPo battery in anyway, do not attempt to charge it.