# 3.7V Lithium Polymer Battery Data Sheet

Model:  504240

Please Find More:

https://www.fpbattery.com/3-7v-800mah-lithium-polymer-battery/

File Number:  A/FP4240-1134

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 504240 |
| Nominal Voltage | 3.7 V |
| Nominal Capacity | 840 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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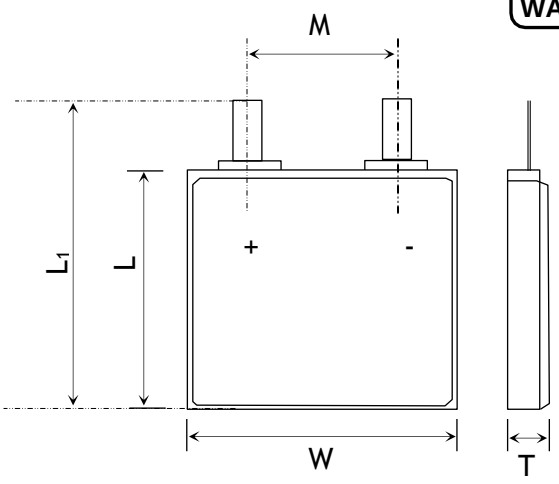
**1 YEAR WARRANTY**




| Item | Parameter (mm) |
|---|---|
| T | 5 |
| W | 42 |
| M | 10 |
| L | 40 |
| $L_1$ | 42 |
| BL | 42 ± 1 |
| CL | 100 |

## ENVIRONMENTAL SPECIFICATIONS

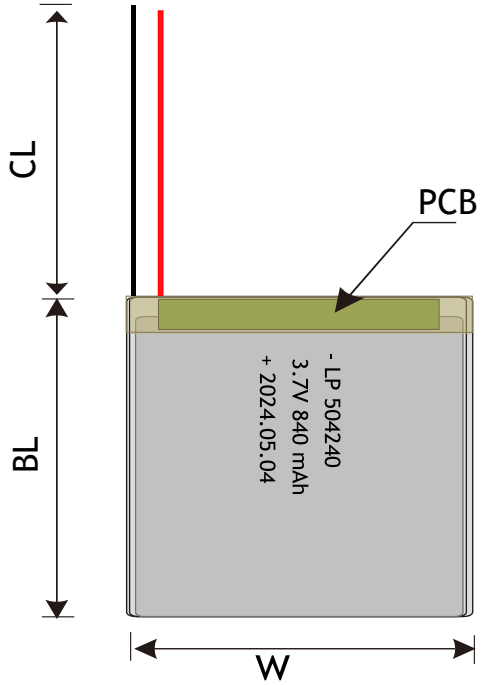
| | |
|---|---|
| Charging Temperature Range | 0 - 45°C |
| Discharging Temperature Range | -20 - 60°C |
| Storage Period 1 Week | -20 - 45°C |
| Storage Period 1 Month | -10 - 45°C |
| Storage Period 6 Months | 0 - 35°C |

## BATTERY PROTECTION

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

## MECHANICAL SPECIFICATIONS

| | |
|---|---|
| Dimensions | 42x 42 x 5 mm(L*W*T) |
| Weight | Around 14 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

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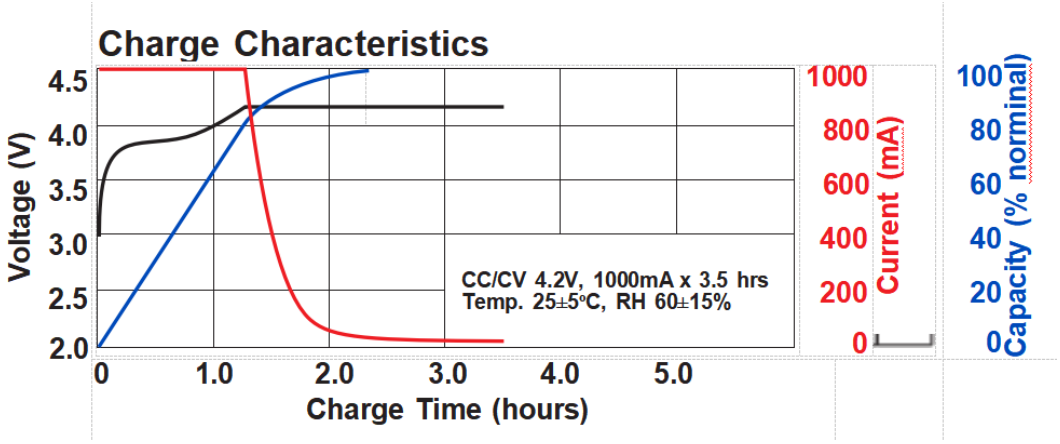
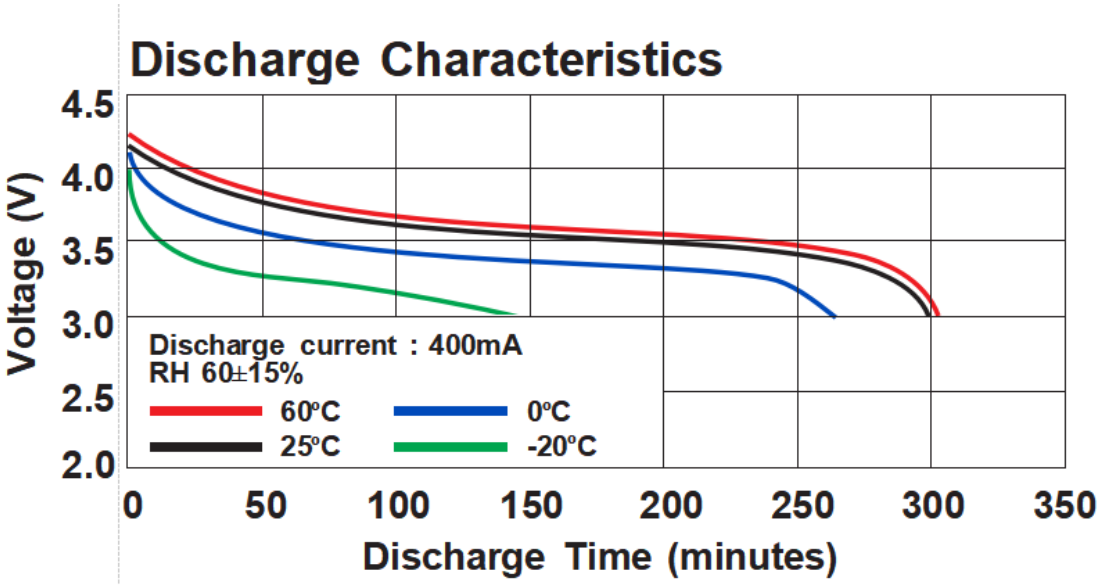
## RELATIVE CURVES




## ANNOUNCEMENT

- Avoid changing the battery frequently during use.
- Higher cell voltage during storage will increase the self-discharge rate of the battery, which may lead to over-discharge and deteriorate battery performance. It is recommended that the battery remain at a lower voltage (about 3.8V/cell) throughout the period of storage. If the battery is to be stored for longer than one year, the user should charge the battery at least once per year to 3.8V/cell to prevent over-discharge.
- Never discharge Batteries to voltage below which they are rated by the manufacturer when measured under load(connected to the vehicle or a charger capable of discharge). Batteries discharged to a voltage lower than the lowest approved voltage may be damaged, resulting in loss of performance and potential fire when batteries are charged.
- Do not over-discharge (3.2V per cell)
- Do not charge LiPo batteries in a vehicle or in the engine compartment of a vehicle.
- Every time a battery is not used actively (e.g. for more than 3 days), it should be placed in the storage area tAVOID being damaged and becoming unsafe.
- ALWAYS use the charging cord supplied with the device (or only use a replacement charging cord that is specified by the device manufacturer to bean approved alternative).
- Never discharge Batteries to voltage below which they are rated by the manufacturer when measured under load(connected to the vehicle or a charger

capable of discharge). Batteries discharged to a voltage lower than the lowest approved voltage may be damaged, resulting in loss of performance and potential fire when batteries are charged.

- Batteries should not be carried in pockets as coins, keys and similar metal items can cause shorting leading to overheating, burns or ignition.
- Do not short-circuit the battery.
- Keep all batteries out of the reach of children.