# 3.7V Lithium Polymer Battery Data Sheet

Model:  452842

Please Find More:

https://www.fpbattery.com/3-7v-500mah-lithium-polymer-battery/

File Number:  A/FP2842-12162

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/

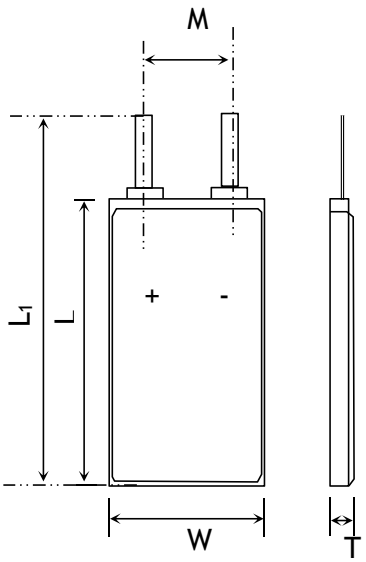
DNK POWER COMPANY LIMITED

## BATTERY SPECIFICATION

| | |
|---|---|
| Part Number | DNK 452842 |
| Nominal Voltage | 3.7 V |
| Nominal Capacity | 530 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

**1 YEAR WARRANTY**




| Item | Parameter (mm) |
|---|---|
| T | 4 |
| W | 28 |
| M | 10 |
| L | 42 |
| $L_1$ | 44 |
| BL | 44 ± 1 |
| CL | 100 |

## ENVIRONMENTAL SPECIFICATIONS

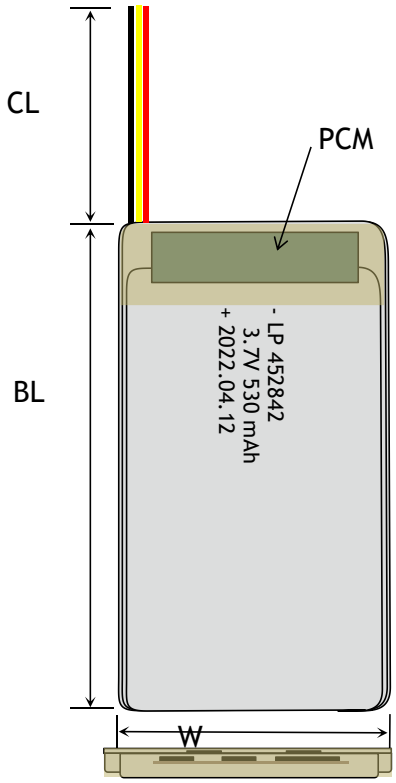
| | |
|---|---|
| Charging Temperature Range | 0 - 45°C |
| Discharging Temperature Range | -20 - 60°C |
| Storage Period 1 Week | -20 - 45°C |
| Storage Period 1 Month | -10 - 45°C |
| Storage Period 6 Months | 0 - 35°C |

## BATTERY PROTECTION

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

## MECHANICAL SPECIFICATIONS

| | |
|---|---|
| Dimensions | 44x 28 x 4 mm(L*W*T) |
| Weight | Around 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)

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BLUE WRAPPED PVC (UWP)



BLACK WRAPPED PVC (BWP)

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## 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

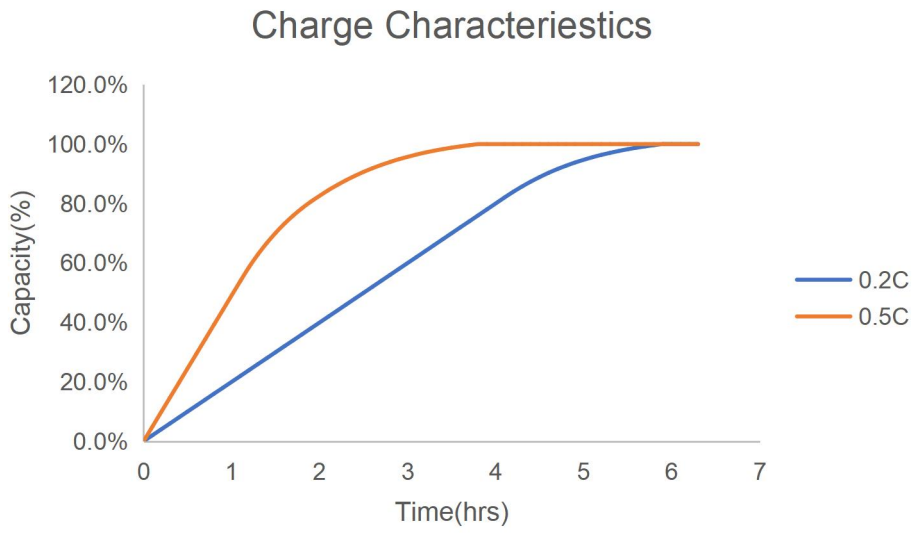


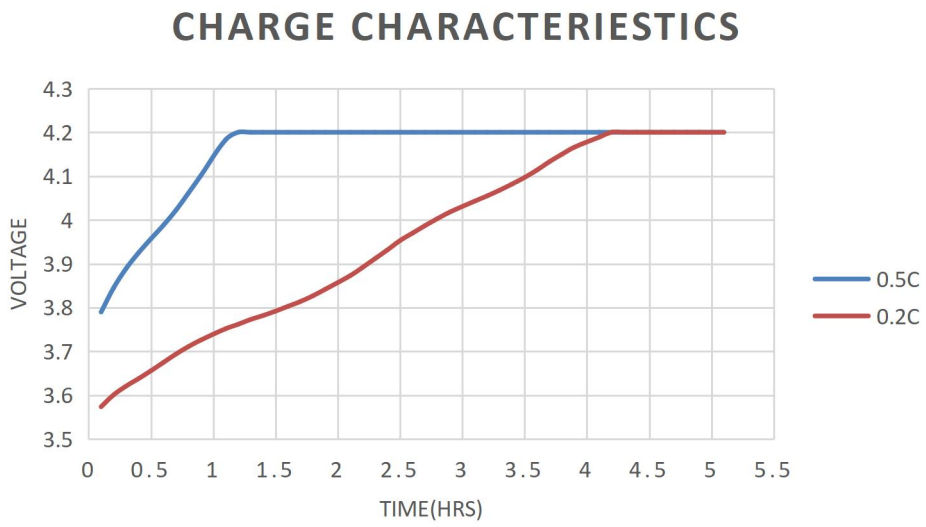
Power Button



Upgrade to LifePo4 tech and life circle up to 1500

# RELATIVE CURVES




# ANNOUNCEMENT

- LiPo batteries have very specific charging requirements. Some chargers, such as those used for toys or cellphones, are made to charge a specific cell count and are not configurable for other cell counts. The LiPo charger used must be able to handle the cell count of the battery you arecharging.
- Do not discharge you LiPo cells below 3.00V per cell (e.g. 9.00V for a 3S pack) as this will damage the cells and dramatically reduce the life of your cells. If you do accidentally discharge them below 3.00V per cell, leave them for 30 minutes and if the voltage recovers to over 3.30V per cell then they should be OK to use them again. If they do not recover to at least 3.00V per cell then I'm afraid you have damaged them and they should be disposed of (Please see below for the correct method of disposal).
- If you plan not to use your LiPo cells for an extended period (more then 4 days) then use the "Storage" setting on your charger. If your charger does not have this feature then don't use it and invest in one that does.
- Do not allow charging to continue above 4.20V per cell. This is VERY important as a fire could result.
- Charging current should be less than maximum charge current specified in the Product Specification.
- Do not 'peak charge' or 'top off' Lipo batteries always remove Lipo batteries from a charger once they are charged.
- Do not reverse the polarity.
- When using the charger, please monitor the temperature of the charger.
- Manually check the temperature of your LiPo battery pack constantly during charging. LiPo cells should never rise above ambient temperature when being charged.
- In general, most LiPo batteries should be charged to no more than 4.2 volts per cell or depleted to less than 3.0 volts per cell. There are new generation batteries available that can handle higher / lower voltages, but they are still new and thus are the exception to the rule.
- Do not open the battery system or modules unless you have a risk assessment, training and permission.