# 3.7V Lithium Polymer Battery Data Sheet

Model:  453236

Please Find More:

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

File Number:  A/FP3236-4731

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

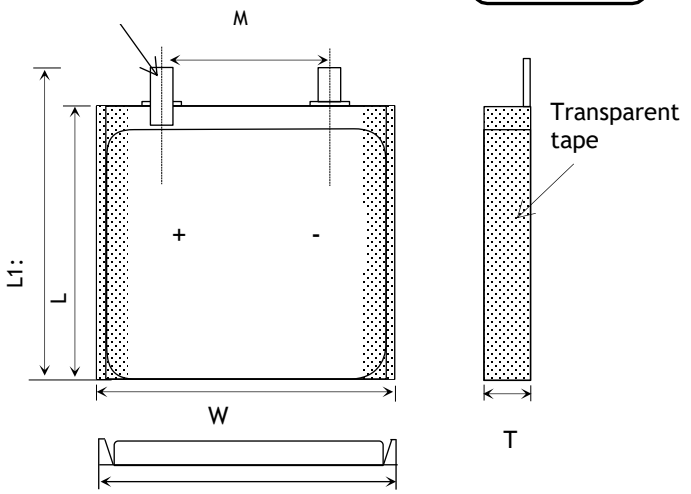
## BATTERY SPECIFICATION

| | |
|---|---|
| Part Number | DNK 453236 |
| 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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**1 YEAR WARRANTY**

Inflex and soler




| Item | Parameter (mm) |
|---|---|
| T | 4 |
| W | 32 |
| M | 10 |
| L | 36 |
| $L_1$ | 38 |
| BL | 38 ± 1 |
| CL | 100 |

## ENVIRONMENTAL SPECIFICATIONS

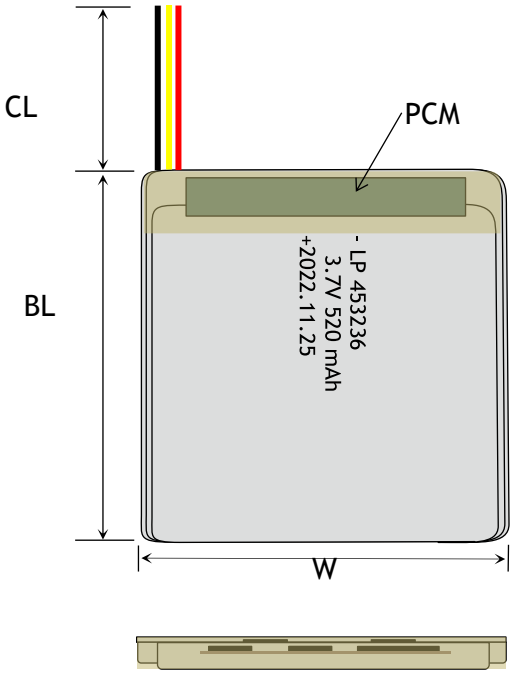
| | |
|---|---|
| Charging Temperature Range | 0 - 45°C |
| Discharging Temperature Range | -20 - 60°C |
| Storage Period 1 Week | -20 - 45°C |
| Storage Period 1 Month | -10 - 45°C |
| Storage Period 6 Months | 0 - 35°C |

## BATTERY PROTECTION

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

## MECHANICAL SPECIFICATIONS

| | |
|---|---|
| Dimensions | 38x 32 x 4 mm(L*W*T) |
| Weight | Around 8 g |
| Battery Terminals | WC/ FL * |




## CERTIFICATION

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

* aWC=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

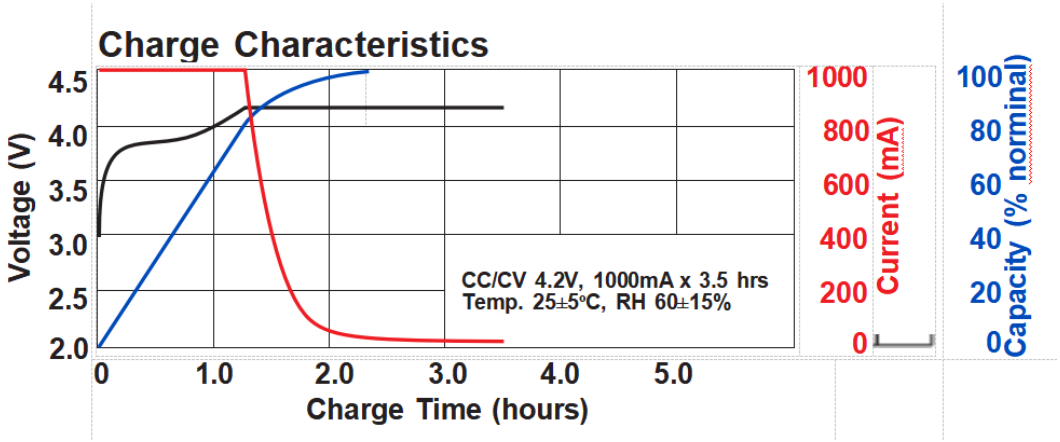


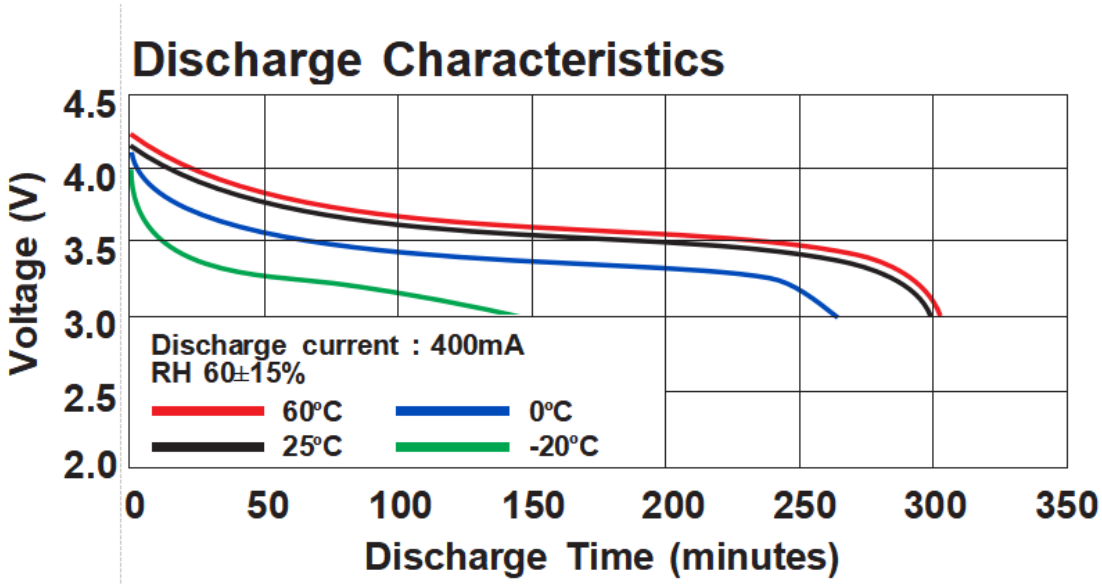
Power Button



Upgrade to LifePo4 tech and life circle up to 1500

# RELATIVE CURVES




# ANNOUNCEMENT

- During transportation and storage, ensure effective measures are employed to prevent shortcircuit.
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- 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.
- Before starting work, inspect your battery for signs of damage prior to each use: bulging, hissing, leaking, or smoking. Do not use your battery if it displays any of these characteristics.
- Always use the appropriate balancer/charger when charging your LiPo battery pack.
- When charging a LiPo battery always use LiPo Safety Bag (Flame retardant).
- Avoid tightening the voltage adjustment knob on the way to use the battery.
- If any of the individual cells become warm/hot compared to the other cells, disconnect it immediately and either cover it with a fire blanket, or put it in a non-conductive container and place it outside away from all flammable objects for at least 30 minutes as chemical reactions can take this long before a fire starts.
- Observe the polarities (Negative and Positive). Do not connect them wrongly.
- 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.
- Heat kills Lipos, the hotter a battery gets, the shorter the lifespan will be.