3.7V Lithium Polymer Battery Data Sheet

Model: 452448

Please Find More:

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

File Number: A/FP2448-19223

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 452448
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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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

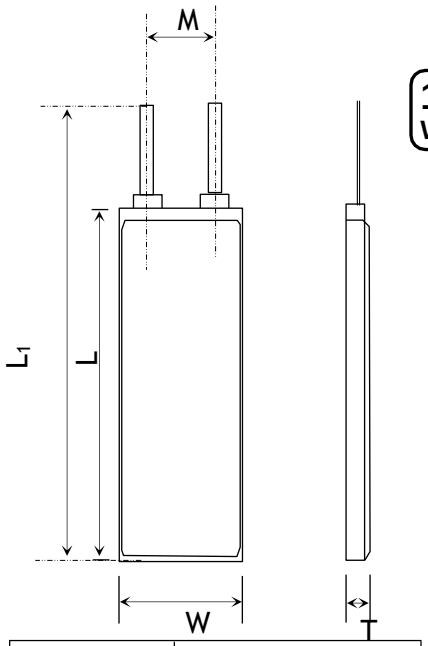
MECHANICAL SPECIFICATIONS

Dimensions	50x 24 x 4 mm(L*W*T)
Weight	Around 8 g
Battery Terminals	WC/ FL *

CERTIFICATION

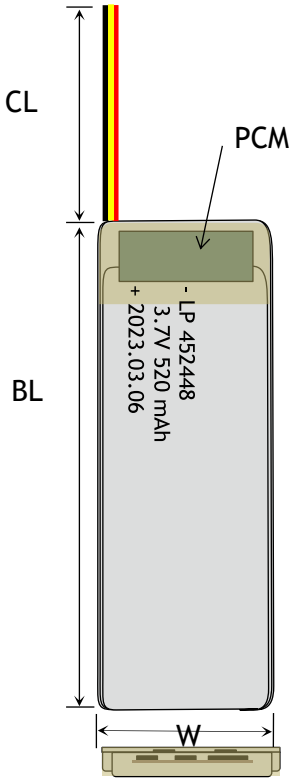
Certification Approval	PLEASE CONSULT SALES

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



1 YEAR WARRANTY

Item	Parameter (mm)
T	4
W	24
M	10
L	48
L_1	50
BL	50 ± 1
CL	100



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

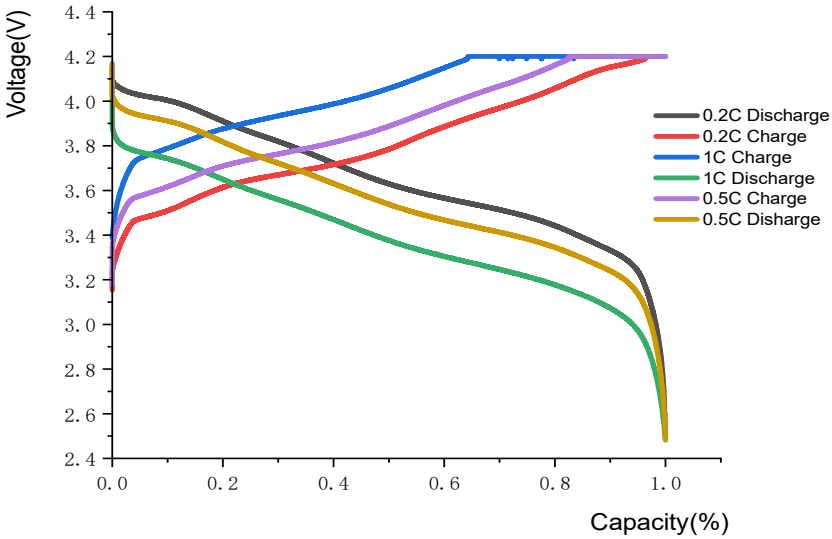
LED Power Indicator

Power Button

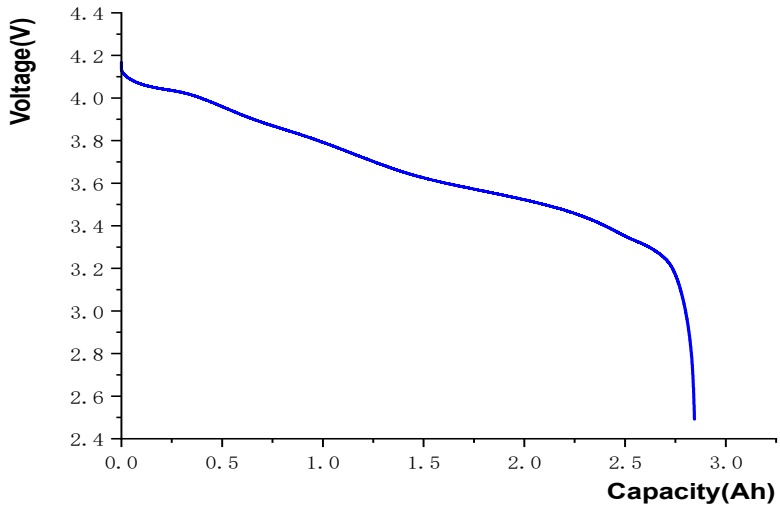
Upgrade to LifePo4 tech and life circle up to 1500

RELATIVE CURVES

Charge & Discharge Characteriestics in different Rate@25℃



0.2C Discharging Characteriestics Curve@25℃



ANNOUNCEMENT

- Obtain sand. Use in bottom of isolation containers and as a smothering agent in case of fire.
- Never drop this type of battery, it will be deformed and we advise you never to try to charge a deformed battery as this may cause swelling, leakage and even fire.
- Before starting work, if you are designing wearables using lithium-ion batteries, make sure they are easily removeable if they start to react while being worn.
- Do not over-discharge (3.2V per cell)
- Store LiPo batteries at room temperature between 5°C and 27°C (40°F and 80°F) for best results. The lower the temperature the better.
- Do not carry LiPo batteries in your pocket. They have been known to short against coins and keys and cause fires.
- Do not allow charging to continue above 4.20V per cell. This is VERY important as a fire could result.
- Never charge batteries unattended.
- Never charge a battery that shows signs of puffing.
- Be sure to read all documentation supplied with your battery.
- If you start seeing any physical changes to the battery while charging example puffing, STOP charging immediately and dispose of the battery responsibly.