3.7V Lithium Polymer Battery Data Sheet

Model: 402948

Please Find More:

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

File Number: A/FP2948-14887

File Version: 01

CONTACT

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

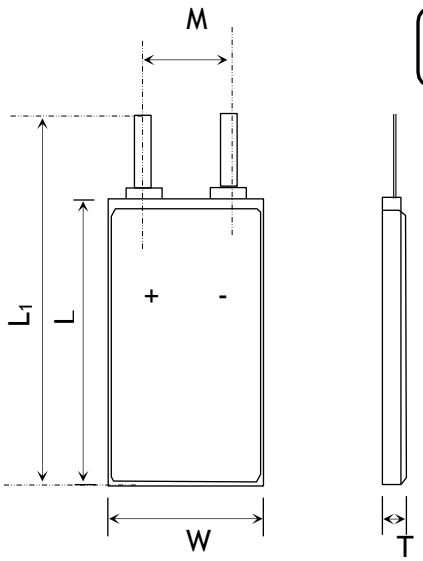
LEARN MORE ON:
https://www.fpbattery.com/

DNK POWER COMPANY LIMITED

BATTERY SPECIFICATION

Part Number	DNK 402948
Nominal Voltage	3.7 V
Nominal Capacity	555 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 YEAR WARRANTY



Item	Parameter (mm)
T	4
W	29
M	10
L	48
L_1	50
BL	50 ± 1
CL	100

ENVIRONMENTAL SPECIFICATIONS

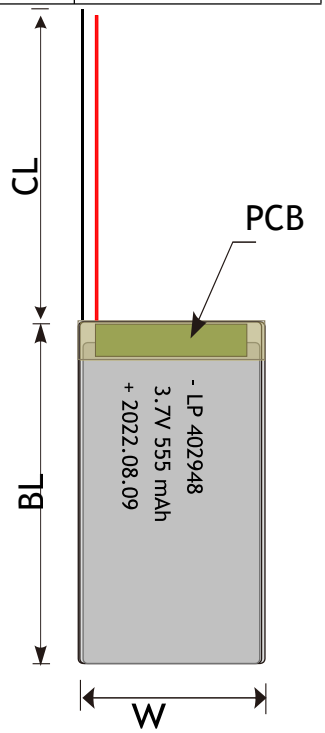
Charging Temperature Range	0 - 45°C
Discharging Temperature Range	-20 - 60°C
Storage Period 1 Week	-20 - 45°C
Storage Period 1 Month	-10 - 45°C
Storage Period 6 Months	0 - 35°C

BATTERY PROTECTION

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

MECHANICAL SPECIFICATIONS

Dimensions	50x 29 x 4 mm(L*W*T)
Weight	Around 9 g
Battery Terminals	WC/ FL *



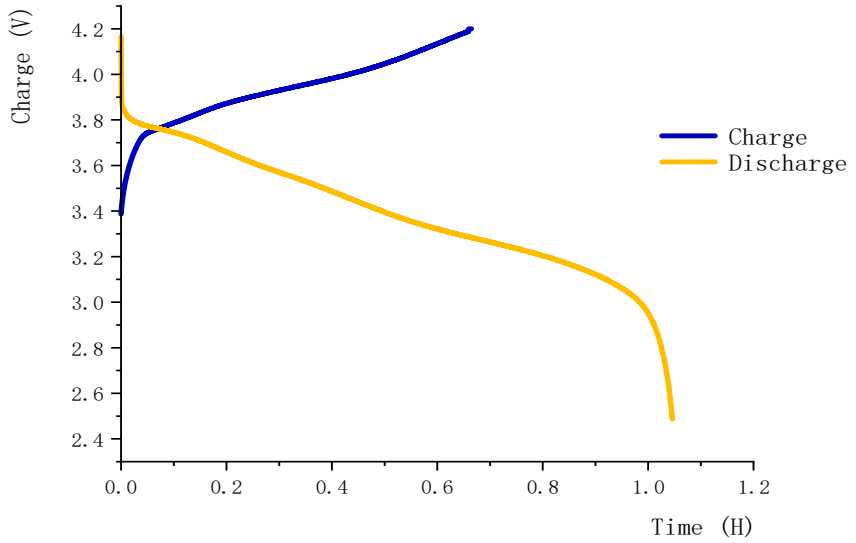
CERTIFICATION

Certification Approval	PLEASE CONSULT SALES

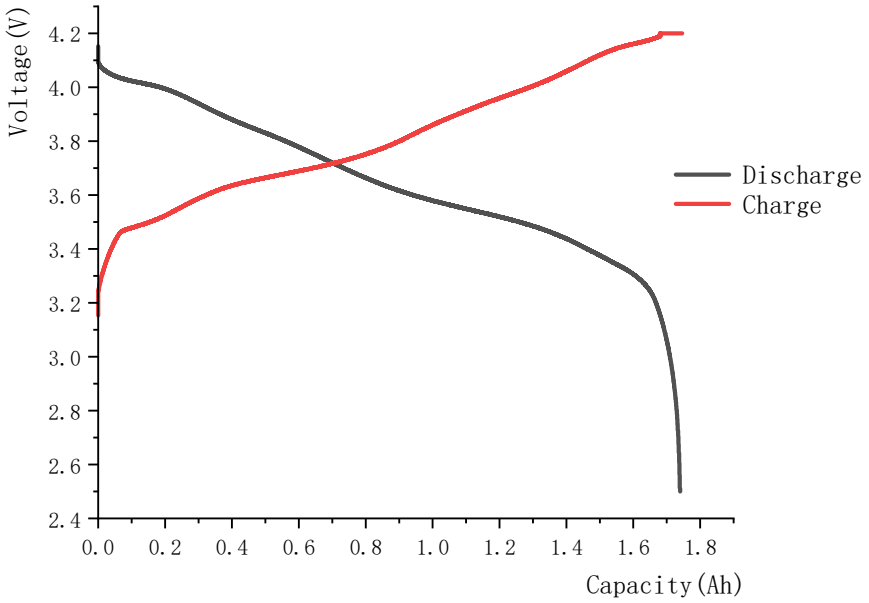
* WC=With Connector FL=Flying Leads UWP=Blue Wrapped PVC BWP=Black Wrapped PVC BC= Bare Cell

RELATIVE CURVES

Discharge Voltage VSCharge Voltage Characteristics Curve@1C,25℃



Discharge VS Charge Characteristics Curve@0.2C 25℃



ANNOUNCEMENT

- Do not allow children to touch the battery, especially untrained children.
- Have a class ABC or CO2 fire extinguisher nearby the storage area.
- Do not overcharge the battery and observe the charger and battery charge time instructions.
- Obtain container to safely transport LiPo batteries between the labs and use locations. Remove from vehicle once at the destination.
- Although protective electronics built into the battery should prevent overcharging, such a battery management system can fail- for example if the charger is not suitable and thus unattended charging is always a source of danger.
- Before starting work, remove watches, metal rings, and other metal jewelry when working with or near large batteries or power supplies. If the metal from your jewelry comes into contact with a terminal, you become part of the circuit. Effects can vary from a small electric shock to burns or even electrocution, depending on the power of the battery.
- Always use a balancer board to charge LiPo Battery with more than 1 cell.
- When not using your LiPo/Li-ion battery pack, store it at 60-70% of the pack's rated capacity. Lithium-ion cells should never be stored fully charged, it is suggested to store them with a voltage around 3.8V. Most of the chargers have a "storage mode" that will either charge or discharge the cell to the proper storage voltage. Experts recommend to put the cells in storage mode after every run, this will help the battery to lengthen the usable life span

- ALWAYS consider using a “Lipo Guard” or a similar protective pouch while charging LiIon and LiPo batteries (this type of pouch will contain a small fire should the battery bulge or personal laptop computers by individuals.) experience a thermal runaway event, protecting nearby items against ignition. *Note: this recommendation is not intended to apply to routine charging and use of
- If your skin or eyes come into contact with liquid from the battery, rinse thoroughly and notify a medical service for expert advice.
- Never discharge battery to a level below 3V per cell under load.