3.7V Lithium Polymer Battery Data Sheet

Model: 453043

Please Find More:

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

File Number: A/FP3043-10948

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 453043
Nominal Voltage	3.7 V
Nominal Capacity	580 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

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

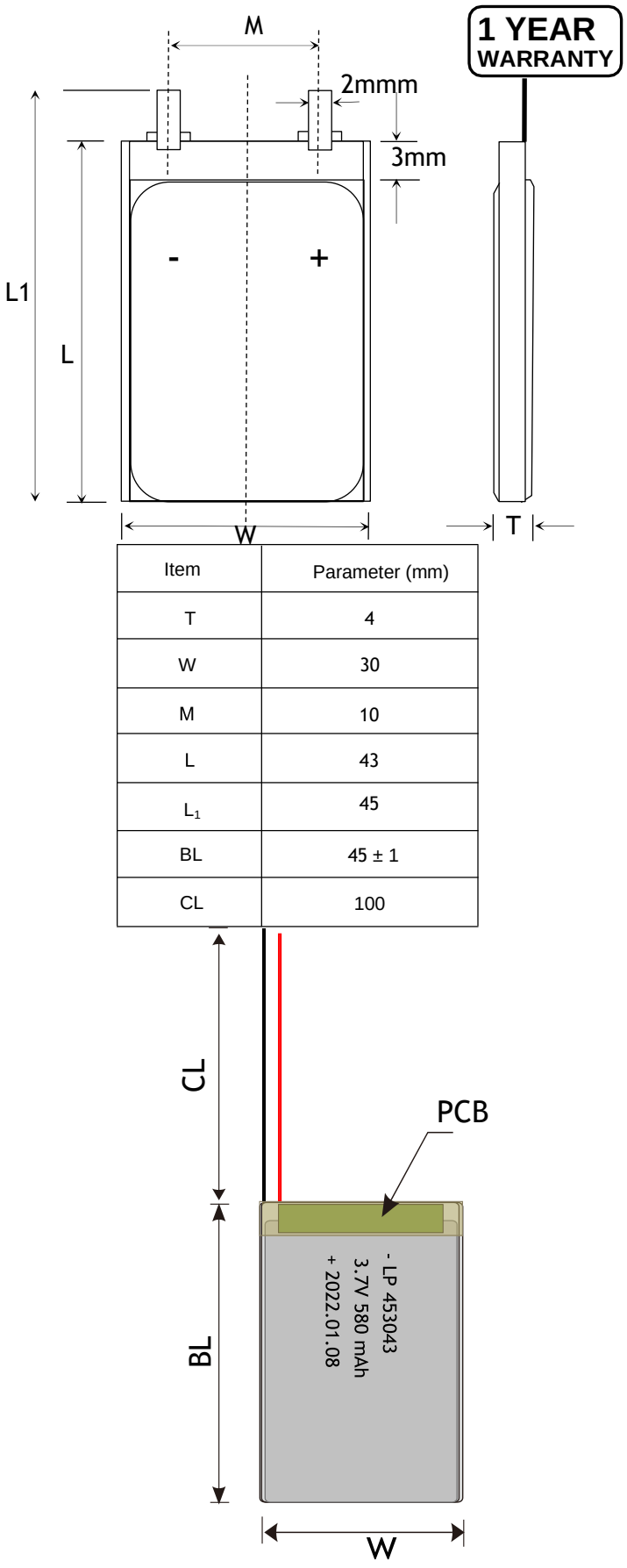
MECHANICAL SPECIFICATIONS

Dimensions	45x 30 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



Item	Parameter (mm)
T	4
W	30
M	10
L	43
L_1	45
BL	45 ± 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





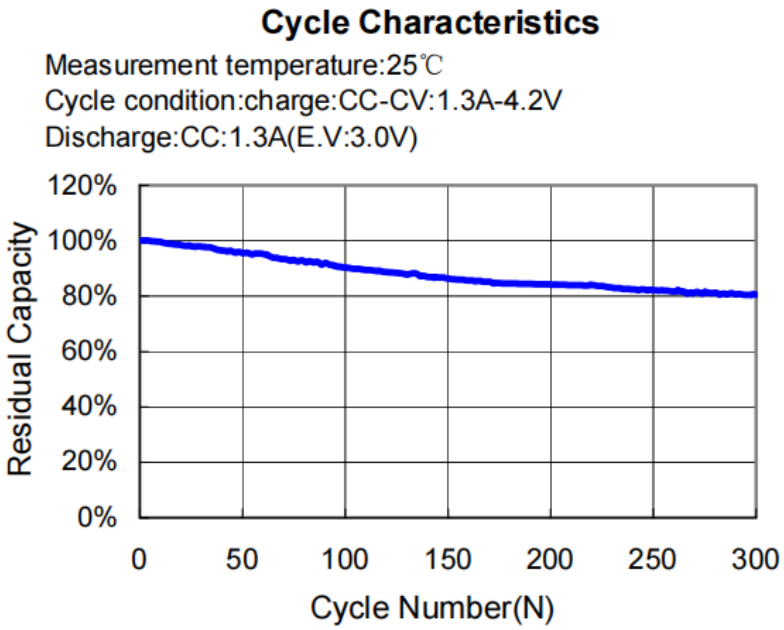
LED Power Indicator



Power Button

Upgrade to LifePo4 tech and life circle up to 1500

RELATIVE CURVES



ANNOUNCEMENT

- It is prohibited to disassemble a LiPo battery, this may generate a gas release or cause a fire
- Ensure that you purchase the right type and size of battery that matches the requirements of your equipment.
- Test equipment for short circuits prior to installing batteries.
- Only ever use a charger specifically designed to charge Lithium Polymer cells. Failure to do so may a cause fire, which may result in personal injury and/or property damage.
- Never charge batteries unattended.
- ALWAYS store batteries away from any materials that can catch fire.
- For thermal runaway/fire, activate fire alarm, evacuate, contact public safety.
- Manually check the temperature of your LiPo battery pack constantly during charging. LiPo cells should never rise above ambient temperature when being charged.
- Never remove the battery from its protective plastic case.
- Reacting and leaking batteries are considered hazardous waste. Please consult Emergency Procedures below.
- Do not charge any pack containing one or more damaged or swollen/puffed cell as there is a high risk of a fire. Dispose of them.