# 3.7V Lithium Polymer Battery Data Sheet

Model:  405178

Please Find More:

https://www.fpbattery.com/3-7v-1600mah-lithium-polymer-battery/

File Number:  A/FP5178-12639

File Version: 01


CONTACT

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Hours of Operation:
9:00am-6:00pm CST, Monday to Friday

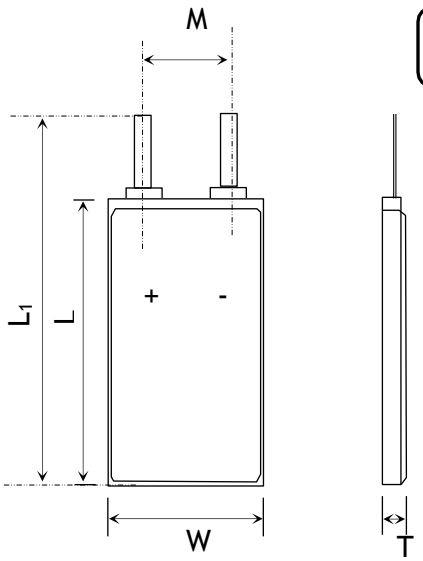
LEARN MORE ON:
https://www.fpbattery.com/

DNK POWER COMPANY LIMITED

## BATTERY SPECIFICATION

| | |
|---|---|
| Part Number | DNK 405178 |
| Nominal Voltage | 3.7 V |
| Nominal Capacity | 1600 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 | 51 |
| M | 10 |
| L | 78 |
| $L_1$ | 80 |
| BL | 80 ± 1 |
| CL | 100 |

## ENVIRONMENTAL SPECIFICATIONS

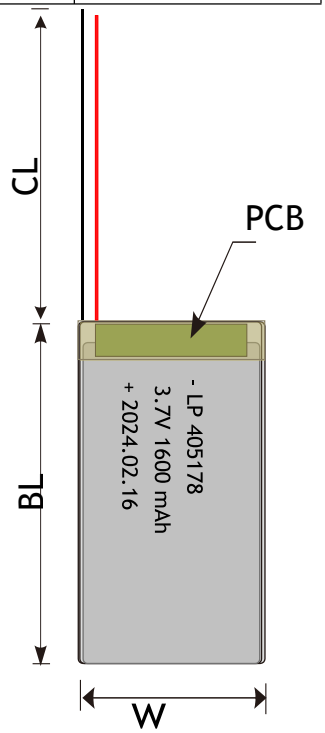
| | |
|---|---|
| Charging Temperature Range | 0 - 45°C |
| Discharging Temperature Range | -20 - 60°C |
| Storage Period 1 Week | -20 - 45°C |
| Storage Period 1 Month | -10 - 45°C |
| Storage Period 6 Months | 0 - 35°C |

## BATTERY PROTECTION

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

## MECHANICAL SPECIFICATIONS

| | |
|---|---|
| Dimensions | 80x 51 x 4 mm(L*W*T) |
| Weight | Around 26 g |
| Battery Terminals | WC/ FL * |

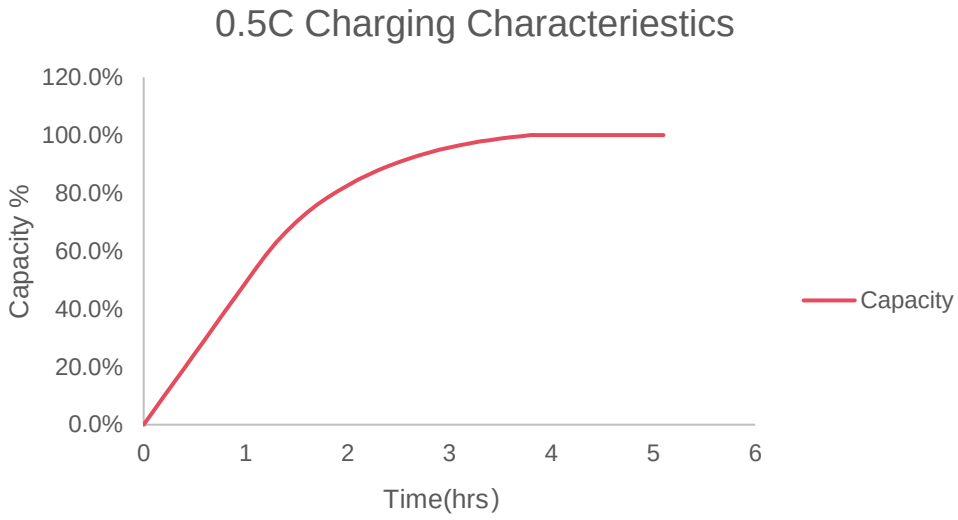


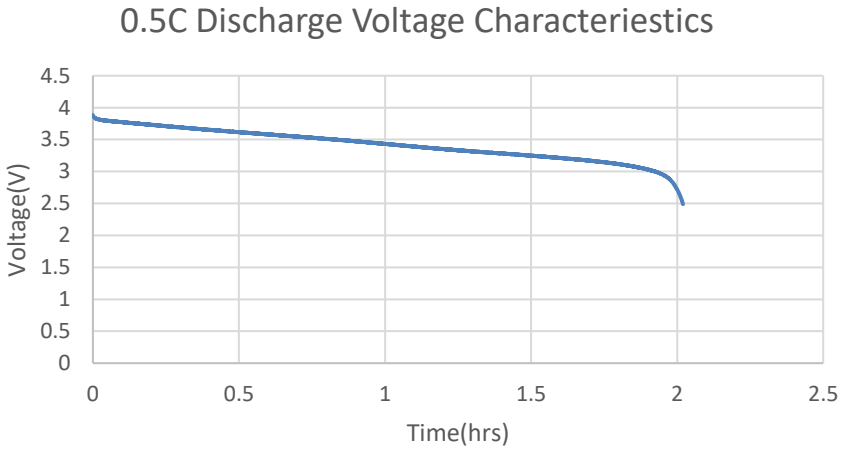

## CERTIFICATION

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

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

# RELATIVE CURVES




# ANNOUNCEMENT

- NEVER continue to charge a device or a battery after it is fully charged, unless the manufacturer's instructions for the charger and the battery specifically state that it is allowed.
- Always set the charger to proper cell count and/or voltage listed on Batteries' labels.
- Be careful of the polarity when connecting and disconnecting batteries.
- Never charge a LiPo battery while inside your model.
- Do not vibrate the battery excessively.
- 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
- Do not allow the battery to come into common contact with metal to prevent a short circuit.
- Never charge Batteries that are too hot to the touch (above 100° F). DO NOT handle Batteries until they are cool.
- 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.
- NEVER attempt to extinguish this type of fire yourself - portable fire extinguishers have proven to be ineffective in extinguishing Li-Ion and LiPo battery fires.
- Do not touch the battery to materials that are easily conductive.