LP POWER COMPANY LIMITED

PRODUCTION SPECIFICATION

1 YEAR WARRANTY

LP POWER has been optimized for good process in the production of battery cells on an industrial scale. This battery has high energy density, long life cycle of charging & discharging, more than 500 cycles. Batteries will be enhanced safety with IC & MOS protectors according to devices. Besides, our batteries are easy to assemble with mounted connectors (Molex, JST, TE and so on). Rigorous testing to ensure the quality of all lithium polymer batteries.

LIPO BATTERY SPECIFICATION

Part Number	LP 502020
Nominal Voltage	3.7V
Nominal Capacity	150 mAh
Internal Impedance	＜60mΩ
Charge Voltage	4.2V
Recommended Charge Current	0.2C
Allowed Max Charge Current	0.5C
Output Voltage Range	4.2 - 2.5V
Recommended Discharge Current	0.2C
Max Continuous Discharge Current	1C
Pulse Discharge Current	3C(10mS)
Discharge Cut-off Voltage	2.5±0.05V
Cycle Life to 80% Health	500(0.2C, 25℃)

ENVIRONMENTAL SPECIFICATION

Charging Temp. Range	0 – 45° C
Discharging Temp. 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 SPECIFICATION

Dimensions	22 x 20 x 5.0 mm(L1*W*T)
Weight	≤5 g
Battery Terminals	WC/FL*

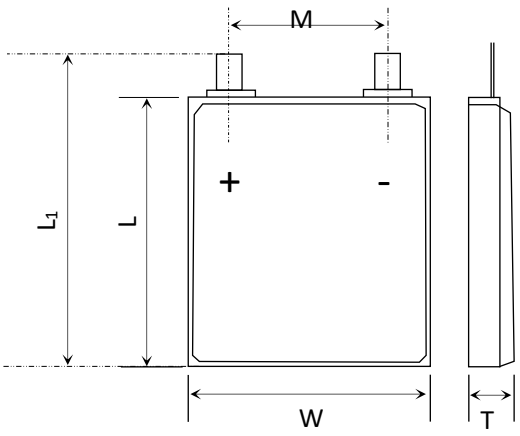
*WC=With Connector FL=Flying Leads

CERTIFICATION

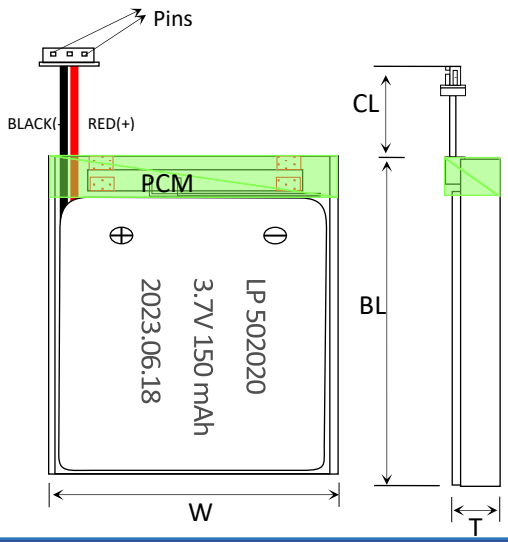
Certificate Approval	UN38.3/ UL/ CE/ customize

*Specifications are subject to change without notice.

OUTER DIMENDIONS (mm)



Item	Parameter (mm)
T	5.0
W	20
M	10
L	20
L1	22
BL	22 ± 1
CL	100



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