



Jauch Battery Solutions

- Reliable energy for your application
- Standard cells and customized packs
- ESD protection
- Battery Certification Experts



RoHS compliant



Pb free



REACH compliant



Conflict Mineral free

SPECIFICATION

Cell Used: U503030P
 Assembly: 1s1p
 Jauch No.: 252538
 Model: LP503030JU

	PREPARED BY	CUSTOMER APPROVAL	VERSION
SIGNATURE	VSI		1.0
DATE	16.05.2024		

RECORDS			
Rev. No.	Date	Changed by	Description



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SPECIFICATIONS

UL1642/UL2054	▪ YES/NO
UN 38.3	▪ YES
IEC62133-2:2017	▪ YES
Nominal Voltage	▪ 3.7 V
Typ. Capacity	▪ 450 mAh (0.2C, 3.0V discharge)
Min. Capacity	▪ 430 mAh (0.2C, 3.0V discharge)
Weight	▪ Approx. 10 gr

CHARGING CHARACTERISTICS PER BATTERY PACK

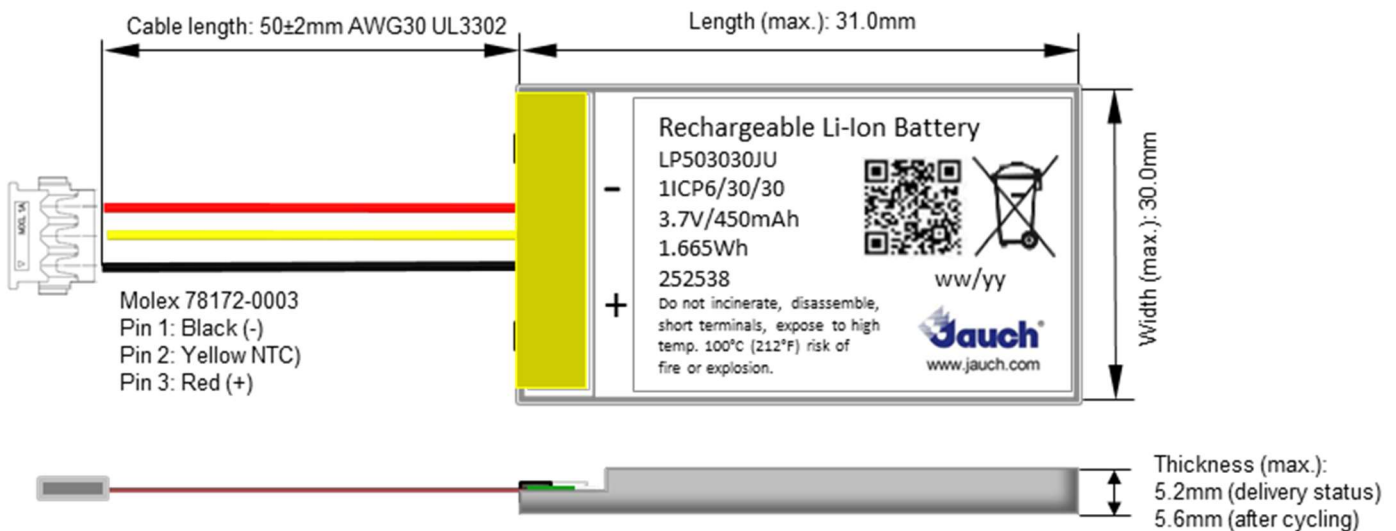
Charge Voltage	▪ 4.2 V
Standard Current	▪ 90 mA (cut-off 0.01C)
Max. Charging Current	▪ 430 mA
Operating Temperature	▪ 0°C to +15°C (max. 0.2C) ▪ +15°C to +45°C (max. 1.0C)

PCM PARAMETER PER BATTERY PACK

Overcharge Det. Voltage	▪ 4.275 V ± 0.05 V
Overcharge Rel. Voltage	▪ 4.075 V ± 0.05 V
Overdischarge Det. Voltage	▪ 3.00 V ± 0.1 V
Overdischarge Rel. Voltage	▪ 3.20 V ± 0.10 V
Max. continuous current	▪ 1.0 A - 2.6 A
NTC	▪ 10kΩ±1% (B=3435)
2 nd Protection	▪ 2 nd IC

DISCHARGING CHARACTERISTICS PER BATTERY PACK

Cut-off Voltage	▪ 3.0 V
Standard Current	▪ 90 mA
Max. Discharging Current	▪ 430 mA
Operating Temperature	▪ -20°C to +60°C
Storage Temperature	▪ -20°C to +25°C 60% R.H: (max. 3 months)
Delivery State of Charge	▪ Max. 30%
Life Expectancy 0.2C/0.2C@25°C	▪ 300 cycles ~ 80% of capacity



The above mentioned PCM parameters are necessary to protect the battery against foreseeable misuse and is required by the safety standard. The customer must make sure that the charge and discharge characteristics will not be exceeded by the final device and charger. The battery shall not be kept constantly on the mentioned voltage level of 4.2V.