

Lithium-ion Polymer Battery Pack

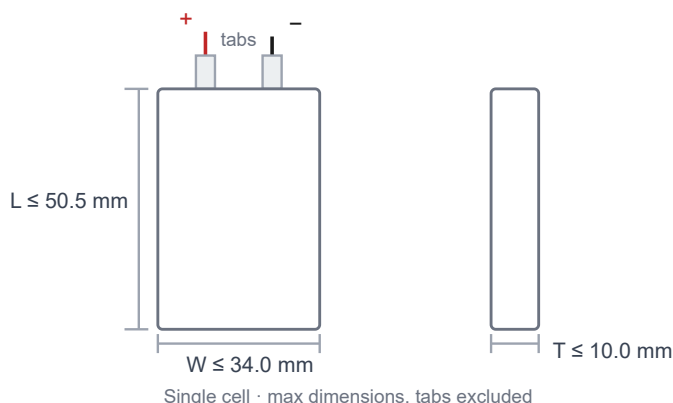
Product Datasheet · Model: 103450 · 11.1 V · 1800 mAh · 3S1P · with protective PCM board and connector

Battery pack with PCM board and connector



Surface marking: "CXY 103450 11.1V 1800mAh 19.98Wh 20261013"

Cell drawing · single cell 103450 (not to scale)



Electrical Characteristics

Nominal Capacity	1800 mAh (0.2C discharge)
Nominal Voltage	11.1 V
Charge Voltage	12.6 V
Discharge Cut-off	9.0 V
Initial Impedance	≤ 300 mΩ (with PCM)
Cycle Life	≥ 300 cycles *
Capacity Retention	≥ 90% after 28 days

Mechanical Characteristics

Pack Weight	Approx. 105 g
Cell Dimensions (T×W×L)	10.0 × 34.0 × 50.5 mm × 3
Pack Dimensions (T×W×H)	≤ 32.0 × 34.2 × 55.5 mm
Wire	UL1571 24# AWG
Connector	JST ZH 1.5 mm 3P male

* Cycle life: standard charge (0.2C CC/CV to 12.6 V), 0.2C discharge to 9.0 V, end of life at 80% of initial capacity. Impedance: AC 1 kHz at 50% SOC, 25°C. All values measured at 25°C unless stated otherwise.

PCM Specification (3S protection board)

Over-charge Protection	4.300 ± 0.050 V / cell
Over-discharge Protection	2.400 ± 0.100 V / cell
Over-current Protection	Available
Short-circuit Protection	Available
NTC	Yes (10 kΩ, B=3435)

Typical Applications

Smart Devices

Medical Devices

Instruments & Meters

Backup Power

GPS Trackers

Specifications are subject to change without prior notice. Please confirm details with SafeLith before ordering.

Charging & Discharging

Standard Charge	0.2C CC/CV to 12.6 V
Rapid Charge	1.0C
Standard Charge Time	6.0 h (0.2C)
Max. Charge Current	1.0C (1.8 A)
Standard Discharge	0.2C to 9.0 V
Max. Discharge Current	1.0C (1.8 A)

Temperature Characteristics

Charge Temperature	0 °C ~ +45 °C
Discharge Temperature	-20 °C ~ +55 °C
Storage < 1 Month	-20 °C ~ +55 °C
Storage < 3 Months	-20 °C ~ +40 °C
Storage < 1 Year	0 °C ~ +25 °C, ≤ 75% RH

Certificates & Documents

MSDS / UN38.3	Available on request
CE / RoHS	Available on request

Warning and Cautions

Lithium-ion Polymer Battery Pack · Model 103450 · 1800 mAh · 11.1 V · 3S1P

To prevent the battery from leaking, heating or explosion, please observe the following precautions. This document should be passed on to the end user of the equipment containing this battery.

Warning

- Do not immerse the battery in water or seawater. Keep it in a cool and dry environment when not in use.
- Do not discard or leave the battery near a heat source such as fire or a heater.
- Charge the battery only with a charger specifically designed for this battery type.
- Do not reverse the positive and negative terminals.
- Do not connect the battery directly to an electrical outlet.
- Do not short-circuit the positive and negative terminals with metal objects such as wires or necklaces.
- Do not transport or store the battery together with metal objects such as necklaces or hairpins.
- Do not strike, throw or trample the battery.
- Do not directly solder the battery or pierce it with a nail or other sharp object.
- Do not use damaged or deformed cells. Never disassemble the battery.
- Keep the battery away from children.

Cautions

- Do not use or leave the battery at very high temperature conditions (for example, strong direct sunlight or a vehicle in extremely hot weather). Otherwise it can overheat or catch fire, and its performance and service life will be reduced.
- Do not use the battery in a location with strong static electricity or magnetic fields, otherwise the safety devices may be damaged and cause hidden dangers.
- If the battery leaks and the electrolyte gets into the eyes, do not rub the eyes. Rinse them with clean water immediately and seek medical attention.
- If the battery gives off an odor, generates heat, becomes discolored or deformed, or appears abnormal in any way during use, recharging or storage, remove it from the device or charger immediately and stop using it.
- If the battery terminals are dirty, clean them with a dry cloth before use. Poor connection may cause power failure or charging failure.

Storage & Transportation

- Store batteries in a cool, dry and well-ventilated area, away from fire and heat sources. Best storage conditions: 25 ± 5 °C, $60 \pm 15\%$ RH.
- Store the battery at 40%-60% state of charge (approx. 3.85 V per cell). Recharge every 3 months to avoid over-discharge.
- Do not stack cartons more than 7 layers or store them upside down. Maximum temperature during transportation: below 60°C.
- Do not mix battery products with other cargo; keep them away from water and moisture.

Note: any items not covered in this specification shall be agreed by both parties. Dispose of the battery in accordance with local regulations.