



Lithium-ion Polymer Battery Pack

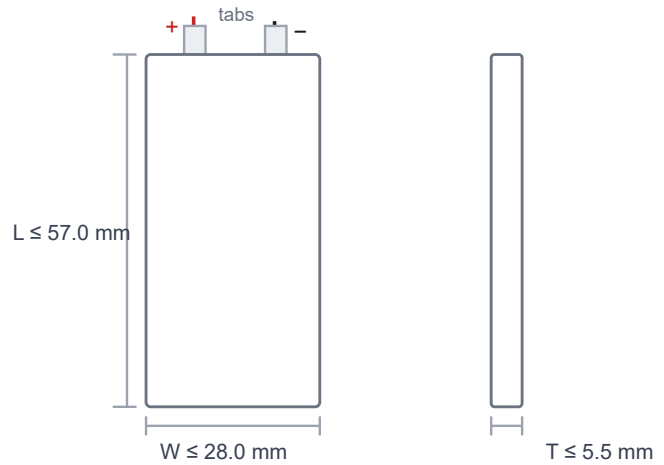
Product Datasheet · Model: 552857 · 11.1 V · 950 mAh · 3S1P · with protective PCM board and connector

Product photo (representative image)



Content: -PPG 552857 11.1V 950mAh 10.545Wh +YYMMDD

Cell drawing · single cell 552857 (not to scale · dims exclude tabs)



Electrical Characteristics

Nominal Capacity	950 mAh (0.2C discharge)
Nominal Voltage	11.1 V
Charge Voltage	12.6 V
Discharge Cut-off	9.0 V
Initial Impedance	≤ 300 mΩ
Cycle Life	≥ 300 cycles *
Capacity Retention	≥ 200 min (0.2C) after 28 days

Mechanical Characteristics

Pack Weight	TBD
Cell Dimensions (T×W×L)	5.5 × 28.0 × 57.0 mm × 3
Pack Dimensions (T×W×H)	≤ 17.2 × 27.9 × 62.0 mm
Wrap	Blue PVC heat-shrink
Wire	UL1571 24# AWG, exposed 25 ± 3 mm
Connector	JST ZHR-2P (reverse), left-side exit

* Cycle life: 0.5C CC/CV charge to 12.6 V (cut-off ≤ 0.01C), 0.5C discharge to 9.0 V, end of life at 80% of initial capacity. Capacity retention: after 28 days storage at 20 ± 5 °C, 0.2C discharge time ≥ 200 min. All values measured at 23 ± 5 °C unless stated otherwise.

PCM Specification

Over-charge Detection	4.25 ± 0.25 V / cell
Over-charge Release	4.05 ± 0.05 V
Over-discharge Detection	2.70 ± 0.10 V / cell
Over-current Protection	3.0 – 9.0 A
Short-circuit Protection	Delay 5 – 15 ms
Board On-resistance / Consumption	≤ 65 mΩ / ≤ 14 μA

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	0.5C
Standard Charge Time	approx. 6.5 h (0.2C)
Max. Charge Current	0.5C (0.475 A)
Standard Discharge	0.2C to 9.0 V
Max. Discharge Current	3.0C (2.85 A)

Temperature Characteristics

Charge Temperature	10 °C ~ +45 °C
Discharge Temperature	-20 °C ~ +60 °C
Storage < 1 Month	-20 °C ~ +45 °C
Storage < 3 Months	-20 °C ~ +35 °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 552857 · 950 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: $23 \pm 5^{\circ}\text{C}$, 45 – 75% RH.
- Store the battery at 40%-60% state of charge (approx. 11.25 V for the pack). 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.
- Dispose of discharged batteries with terminals insulated by tape to prevent fire or smoke.

Note: any items not covered in this specification shall be agreed by both parties. Dispose of the battery in accordance with local regulations. Warranty: one year from the date of shipment, covering manufacturing defects only.