

3.7V 1100mAh Lithium Polymer (LiPo) Battery with Connector | THOR-603

Model: THOR-603545 Nominal: 3.7 V / 1100 mAh / 4.07 Wh Issued: 2026-09-10

1. Mechanical Characteristics

Model	THOR-603545
Cell Type	Lithium Polymer (LiPo) pouch cell
Configuration	1S1P (customizable)
Dimensions (T×W×L)	6 × 35 × 45 mm (bare cell)
Dimension Tolerance	Thickness ±0.2 mm; Width/Length ±0.5 mm
With PCM Board	Length approx. +2 mm vs bare cell
Weight	Approx. 20 g
PCM / BMS	Included (standard)
NTC Thermistor	Optional
Connector	PH2.0 / Molex 1.25 (custom available)
Wire Length	Customizable
UN38.3	Test Summary available
Safety Data Sheet	SDS / MSDS available
IEC 62133-2	Available for selected models
RoHS / REACH	Compliance documents available

2. Electrical Specifications

Nominal Voltage	3.7 V
Rated Capacity	1100 mAh
Energy	4.07 Wh
Charge Voltage	4.20 ± 0.03 V
Standard Charge	220 mA (0.2C), CC/CV to 4.20 V
Charge Cut-off Current	0.02C
Max. Charge Current	1.1 A (up to 1C), model-specific
Discharge Cut-off Voltage	3.0 V
Standard Discharge	220 mA (0.2C)
Max. Continuous Discharge	1.1 A (1C), model-specific
Internal Resistance	≤ 70 mΩ (1 kHz, 50% SOC, 25°C)
Cycle Life	≥ 500 cycles, ≥ 80% capacity
Cycle Test Condition	0.5C charge / 0.5C discharge, 3.0-4.2 V, 25 ± 2°C

Charge Temperature	0°C ~ 45°C
Discharge Temperature	-20°C ~ 60°C
Storage Temperature	-10°C ~ 45°C (<= 1 month)
Capacity Retention	>= 90% after 28 days @ 25°C
Note	Higher discharge-rate designs available upon engineering review

3. Protection Circuit (when PCM equipped)

Overcharge Detection	4.28 ± 0.03 V per cell
Overcharge Release	4.08 ± 0.05 V
Over-discharge Detection	2.75 ± 0.05 V
Over-discharge Release	3.00 ± 0.05 V
Overcurrent Protection	Per PCM design (2A ~ 5A typical)
Short-circuit Protection	Yes, auto-recovery

Note: Values shown are THOR Power standard specifications for this cell class. Final parameters are confirmed in the engineering datasheet for your configuration. Certifications: UN38.3 / MSDS available; CE, KC, ROHS on request. Custom size, capacity, connector, wire length and PCM/BMS available.