

3.7V 5200mAh 18650 Battery Pack (1S2P, PCM) | THOR-18650-1S2P-5200

Model: THOR-18650-1S2P-5200 Nominal: 3.7 V / 5200 mAh / 19.24 Wh Issued: 2026-09-11

1. Mechanical Characteristics

Model	THOR-18650-1S2P-5200
Product Type	Finished 18650 battery pack
Cell Type	Cylindrical Li-ion (INR, steel can)
Cell Configuration	1S2P (2 × THOR-18650-26E)
Cathode / Anode	NMC / Graphite
Dimensions (W×H×D)	37 × 65 × 18.4 mm (bare pack)
Weight	Approx. 100 g
Cell Connection	Nickel strip spot welding
PCM / BMS	Included (current limit configured per application)
NTC Thermistor	Optional
Connector	PH2.0 (custom available)
Wire Length	80 mm
Sleeve	PVC heat-shrink (custom labelling available)

2. Electrical Specifications

Nominal Voltage	3.7 V
Rated Capacity	5,200 mAh
Energy	19.24 Wh
Charge Voltage	4.20 ± 0.05 V
Standard Charge	0.5C constant current, CV to 4.2 V, cut-off 0.02C
Max. Charge Current	1C
Discharge Cut-off Voltage	2.75 V
Standard Discharge	0.2C
Max. Continuous Discharge	2C (10.4 A) at cell level - pack ceiling set by the fitted PCM
Cycle Life	>= 500 cycles @ 0.5C, >= 80% capacity
Charge Temperature	0°C ~ 45°C
Discharge Temperature	-20°C ~ 60°C
Storage Temperature	-10°C ~ 45°C (1 month)
Self-Discharge	<= 3% per month

3. Protection Circuit (PCM)

Overcharge Detection	4.28 ± 0.03 V
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	Configurable per application
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.