

21.6 V

NOMINAL VOLTAGE

6 Ah

CAPACITY

130 Wh

ENERGY

60 A

 CELL BLOCK,
CONTINUOUS (75
°C CUT-OFF)

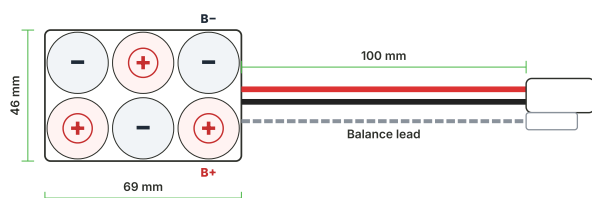
160 A

 CELL BLOCK,
PULSE ≤3 S

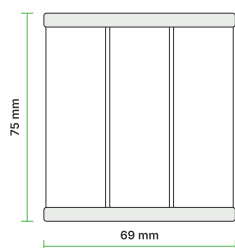
0.46

WEIGHT, KG

1 DIMENSIONS



TOP VIEW · + positive up · - negative up



SIDE VIEW

BUILD	L × W × H	WEIGHT
No BMS	69 × 46 × 75 mm	0.46 kg

Tolerance ±3 mm. Main leads exit along the long side; lead length is measured from the pack end to the connector. Weight is calculated, not measured.

2 ELECTRICAL

Configuration	6S1P, 6 cells
Cell	Tenpower INR21700-60XG
Nominal voltage	21.6 V
Maximum charge voltage	25.2 V
Minimum discharge voltage	15 V
Capacity	6 Ah
Energy	130 Wh
Maximum charge current	16 A
Charge temperature (cell)	0 to 45 °C
Discharge temperature (cell)	-20 to 60 °C

3 INTERFACES

Main leads	10 AWG silicone, red / black
Lead length	100 mm
Balance lead (no-BMS builds)	XH 7-pin, 100 mm
Connector options	XT90, MPC60, MPC30
BMS options	None (external protection required)
Interconnects	Nickel-copper stamp, 0.15 + 0.3 mm

4 CURRENT LIMITS BY CONFIGURATION

BMS	CONNECTOR	CONTINUOUS	PEAK, 30 S	SHORT PULSE
No BMS	XT90	40 A (60 A with 75 °C cut-off) Cells	40 A (60 A with 75 °C cut-off) Cells	90 A Connector
No BMS	MPC60	40 A (60 A with 75 °C cut-off) Cells	40 A (60 A with 75 °C cut-off) Cells	90 A Connector
No BMS	MPC30	40 A (60 A with 75 °C cut-off) Cells	40 A (60 A with 75 °C cut-off) Cells	60 A Connector

Each limit is the lowest of the cell block, the BMS and the connector (lead wire is sized to the connector); the limiting part is named next to each value. Cell block: 1 × 60 A continuous, 1 × 160 A pulse (160 A for 3 s, manufacturer rating). Cell continuous rating: 60 A when discharge is cut off at 75 °C cell temperature, 40 A without a temperature cut-off. A limit above the 40 A-per-cell figure is shown as the 40 A figure with the cut-off value in brackets. Values are at 25 °C.

5 BUILD

Cells	6 × Tenpower INR21700-60XG
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Interconnects	Nickel-copper stamps
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Main leads	10 AWG silicone wire
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Balance lead	XH 7-pin harness (no-BMS builds)
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Protection	None; use external protection
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Connector	Per selected option
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6 HANDLING

- Charge with a CC/CV charger set to 25.2 V, at or below 16 A.
- Packs without BMS need external cell protection; balance them through the XH 7-pin lead.
- Keep within the temperature ranges above. Do not charge unattended.
- Store at 30–50% charge, dry and away from heat.
- Ship as UN 3480 lithium-ion battery.