

Illustrative render generated from published specifications

18.3 × 65 mm

HYB
ICR18650NM



Live page & updates

HYB

18650 NMC

2,000 mAh CAPACITY	— A RATED CONTINUOUS	3.7 V NOMINAL · 2.8 – 4.2 V	7.4 Wh ENERGY
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REFERENCE ONLY — NOT AN OFFICIAL DOCUMENT

This information is gathered from multiple sources, including manufacturer datasheets, independent third-party testing, and community contributions. Cell specifications vary between production batches and change over time, and no figure here is guaranteed to be correct or current. **Always consult the manufacturer's spec sheet directly.** Use this sheet for reference only — never as the sole basis for a safety-critical decision about charging, discharging, or assembling cells. The cell image is an illustrative render generated from published specifications, not a photograph.

CAPACITY AMONG 18650S

#127 of 169

Lowest in database

Highest

A mid-range 18650 cell. Solid for builds that don't need extreme capacity or discharge.

VOLTAGE OPERATING WINDOW

1.4 V usable

Cutoff 2.8 V

Nominal 3.7 V

Max 4.2 V

Below nominal the cell sags fast under load; above it, the last of the capacity fills slowly on the constant-voltage taper.

IDENTITY

Manufacturer	HYB
Model	ICR18650NM
Format	18650
Chemistry	NMC
Wrap colour	Turquoise
Insulator	White
Terminal	Flat top
Protection	Unprotected

OPERATING TEMPERATURE

Charging	0°C to 45°C
Discharging	-20°C to 60°C

ENERGY & POWER DENSITY

Energy	7.4 Wh
Volumetric density	432.84 Wh/L
Capacity ranking	#127 of 169 18650s

PHYSICAL

Diameter	18.3 mm
Length	65 mm

ELECTRICAL

Rated capacity	2,000 mAh
Nominal voltage	3.7 V
Max charge voltage	4.2 V
Discharge cutoff	2.8 V
Energy	7.4 Wh
Internal resistance	70 mΩ
Standard charge current	400 mA
Typical charge time	5 h
Standard discharge	400mA

CHARGING

RATE	CURRENT	ESTIMATED TIME TO FULL
Standard	400 mA	~5h 00m
0.5C	1,000 mA	~2h 00m
1C	2,000 mA	~1h 00m

Constant-current phase only. Real charge time runs longer because of the constant-voltage taper at the end.

SERIES PACK CONFIGURATIONS

Voltages calculated from this cell's own nominal and maximum charge voltage. The 3P columns show one common parallel count as a worked example — scale the parallel group to the capacity you need.

SERIES	NOMINAL	FULLY CHARGED	CELLS AT 3P	CAPACITY	ENERGY
3S	11.1 V	12.6 V	9	6 Ah	67 Wh
7S	25.9 V	29.4 V	21	6 Ah	155 Wh

10S	37 V	42 V	30	6 Ah	222 Wh
13S	48.1 V	54.6 V	39	6 Ah	289 Wh
14S	51.8 V	58.8 V	42	6 Ah	311 Wh

EXAMPLE PACKS

7S2P 24V ebike / small pack 14 cells · 25.9 V 4,000 mAh · 104 Wh	13S4P 48V ebike standard 52 cells · 48.1 V 8,000 mAh · 385 Wh	16S4P DIY powerwall 64 cells · 59.2 V 8,000 mAh · 474 Wh	4S6P Power tool replacement 24 cells · 14.8 V 12,000 mAh · 178 Wh
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SIMILAR CELLS

Same format and chemistry, within ± 500 mAh.

CELL	MAH	CONTINUOUS	WH	WEIGHT	WH/KG
HYB ICR18650NM (this cell)	2,000	—	7.4	—	—
LG LGDBHE21865	2,500	20 A	9.3	48 g	193
Sanyo UR18650F	2,500	5 A	9.3	47 g	197
Sanyo UR18650FM	2,500	5 A	9.3	47 g	197
LG LGCP218650	2,500	—	9	—	—
LG LGDBHE41865	2,500	20 A	9	47 g	191

HANDLING & SAFETY

- Never charge above 4.2V or discharge below 2.8V.
- Store cells at around 3.6-3.8V (roughly 40-60% charge) for long-term storage.
- Don't mix cells with different capacities, chemistries, or states of charge in a pack.
- Inspect wraps before use. A torn wrap can cause a short circuit.
- Always use a BMS or balance charger appropriate for your pack configuration.
- Keep cells away from metal objects, keys, and coins. A short across the terminals can cause fire.

SOURCES & FURTHER READING

Cell Savors page	cellsaviors.com/cell-database/hyb-icr18650nm
Full cell database	cellsaviors.com/cell-database