

Illustrative render generated from published specifications

LG LGDB118650

LG · also sold as ICR18650B1

18650

NMC



Live page & updates

2,600 mAh CAPACITY	— A RATED CONTINUOUS	3.75 V NOMINAL · 3 – 4.35 V	9.75 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 #39 of 169 Lowest in databaseHighest More capacity than 78% of 18650 cells in our database. One of the higher-capacity options.	VOLTAGE OPERATING WINDOW 1.35 V usable Cutoff 3 VNominal 3.75 VMax 4.35 V Below nominal the cell sags fast under load; above it, the last of the capacity fills slowly on the constant-voltage taper.
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IDENTITY

Manufacturer	LG
Model	LGDB118650
Also sold as	ICR18650B1
Format	18650
Chemistry	NMC
Wrap colour	Teal
Insulator	White

ENERGY & POWER DENSITY

Energy	9.75 Wh
Capacity ranking	#39 of 169 18650s

ELECTRICAL

Rated capacity	2,600 mAh
Nominal voltage	3.75 V
Max charge voltage	4.35 V
Discharge cutoff	3 V
Energy	9.75 Wh
Internal resistance	50 mΩ
Standard charge current	1,275 mA
Typical charge time	2 h
Standard discharge	510mA

CHARGING

RATE	CURRENT	ESTIMATED TIME TO FULL
0.5C	1,300 mA	~2h 00m
1C	2,600 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	11.3 V	13 V	9	7.8 Ah	88 Wh
7S	26.3 V	30.4 V	21	7.8 Ah	205 Wh
10S	37.5 V	43.5 V	30	7.8 Ah	293 Wh
13S	48.8 V	56.6 V	39	7.8 Ah	380 Wh
14S	52.5 V	60.9 V	42	7.8 Ah	410 Wh

EXAMPLE PACKS

7S2P 24V ebike / small pack 14 cells · 26.3 V 5,200 mAh · 137 Wh	13S4P 48V ebike standard 52 cells · 48.8 V 10,400 mAh · 507 Wh	16S4P DIY powerwall 64 cells · 60 V 10,400 mAh · 624 Wh	4S6P Power tool replacement 24 cells · 15 V 15,600 mAh · 234 Wh
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SIMILAR CELLS

Same format and chemistry, within ±500 mAh.

CELL	MAH	CONTINUOUS	WH	WEIGHT	WH/KG
LG LGDB118650 (this cell)	2,600	—	9.75	—	—
LG LGABD11865	3,000	—	11.3	—	—
LG LGDBD11865	3,000	5.8 A	11.3	48.5 g	232
Panasonic NCR18650BD	3,100	10 A	11.2	49.5 g	225
Samsung ICR18650-30B	2,950	5.9 A	11.2	48 g	232
Samsung ICR18650-30A	3,000	6 A	11.1	48 g	231

HANDLING & SAFETY

- Never charge above 4.35V or discharge below 3V.
- 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 Saviors page	cellsaviors.com/cell-database/lg-lgdb118650
Full cell database	cellsaviors.com/cell-database