

Illustrative render generated from published specifications

LG LGCP218650

LG

18650

NMC



Live page & updates

2,500 mAh

CAPACITY

— A

RATED CONTINUOUS

3.6 V

NOMINAL · 3 – 4.2 V

9 Wh

ENERGY

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

#63 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

1.2 V usable

Cutoff 3 V

Nominal 3.6 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	LG
Model	LGCP218650
Format	18650
Chemistry	NMC
Wrap colour	Purple (Dark)
Insulator	White
Terminal	Flat top
Protection	Unprotected

ELECTRICAL

Rated capacity	2,500 mAh
Nominal voltage	3.6 V
Max charge voltage	4.2 V
Discharge cutoff	3 V
Energy	9 Wh
Standard charge current	480 mA
Typical charge time	5.2 h
Cycle life	400 cycles

ENERGY & POWER DENSITY

Energy	9 Wh
Capacity ranking	#63 of 169 18650s

CHARGING

RATE	CURRENT	ESTIMATED TIME TO FULL
Standard	480 mA	~5h 12m
0.5C	1,250 mA	~2h 00m
1C	2,500 mA	~1h 00m

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

SERIES PACK CONFIGURATIONS

Voltagess 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	10.8 V	12.6 V	9	7.5 Ah	81 Wh
7S	25.2 V	29.4 V	21	7.5 Ah	189 Wh
10S	36 V	42 V	30	7.5 Ah	270 Wh
13S	46.8 V	54.6 V	39	7.5 Ah	351 Wh
14S	50.4 V	58.8 V	42	7.5 Ah	378 Wh

EXAMPLE PACKS

7S2P 24V ebike / small pack 14 cells · 25.2 V 5,000 mAh · 126 Wh	13S4P 48V ebike standard 52 cells · 46.8 V 10,000 mAh · 468 Wh	16S4P DIY powerwall 64 cells · 57.6 V 10,000 mAh · 576 Wh	4S6P Power tool replacement 24 cells · 14.4 V 15,000 mAh · 216 Wh
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SIMILAR CELLS

Same format and chemistry, within ± 500 mAh.

CELL	MAH	CONTINUOUS	WH	WEIGHT	WH/KG
LG LGCP218650 (this cell)	2,500	—	9	—	—
LG LGABD11865	3,000	—	11.3	—	—
LG LGDBD11865	3,000	5.8 A	11.3	48.5 g	232
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
LG LGDBHG21865	3,000	20 A	10.8	47 g	230

HANDLING & SAFETY

- Never charge above 4.2V 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 Savors page	cellsaviors.com/cell-database/lg-lgcp218650
Full cell database	cellsaviors.com/cell-database