

LG LGEP218650

LG

18650NMC



Live page & updates

2,600mAh CAPACITY	3A RATED CONTINUOUS	3.6V NOMINAL · 2.5 – 4.2 V	9.36Wh ENERGY · 201.29 WH/KG
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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.

CAPACITY AMONG 18650S #96 of 279 Lowest in databaseHighest A mid-range 18650 cell. Solid for builds that don't need extreme capacity or discharge. VOLTAGE OPERATING WINDOW 1.7 V usable Cutoff 2.5 VNominal 3.6 VMax 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.
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APPLICATION SUITABILITY

Rule-of-thumb ratings from this cell's capacity and continuous discharge. Check your own load before committing.

Powerwalls	High capacity means more stored energy per cell. Fewer cells needed for a given kWh target.
Ebike packs	Not enough discharge for ebike use. Voltage sag would be a problem under load.
Car audio	Not enough discharge for car audio amplifiers. You need at least 15-20A continuous for most setups.
High-drain vaping	Below the 25A Mooch CDR threshold that high-drain vaping needs. Use a higher-drain cell.
Flashlights	Decent runtime. Works well for most flashlights.
Power tools	Not enough discharge or capacity for power tool use.

IDENTITY

Manufacturer	LG
Model	LGEP218650
Format	18650
Chemistry	NMC
Wrap colour	Purple
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	9.36 Wh
Specific energy	201.29 Wh/kg
Power density (mass)	232 W/kg
Capacity ranking	#96 of 279 18650s

C-RATE CONVERSION · 2,600 MAH

C-RATE	CURRENT	THEORETICAL RUNTIME
0.2C	0.52 A	5h 00m
0.5C	1.3 A	2h 00m
1C	2.6 A	1h 00m

Highlighted row is closest to the rated 3 A continuous discharge.

CHARGING

RATE	CURRENT	ESTIMATED TIME TO FULL
Standard	975 mA	~2h 40m
0.5C	1,300 mA	~2h 00m

PHYSICAL

Weight	46.5 g
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ELECTRICAL

Rated capacity	2,600 mAh
Nominal voltage	3.6 V
Max charge voltage	4.2 V
Discharge cutoff	2.5 V
Energy	9.36 Wh
Max continuous discharge	3 A (datasheet)
Discharge C-rate	1.2C
Standard charge current	975 mA
Typical charge time	2.7 h
Standard discharge	390mA
Cycle life	400 cycles

1C2,600 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	10.8 V	12.6 V	9	7.8 Ah	84 Wh
7S	25.2 V	29.4 V	21	7.8 Ah	197 Wh
10S	36 V	42 V	30	7.8 Ah	281 Wh
13S	46.8 V	54.6 V	39	7.8 Ah	365 Wh
14S	50.4 V	58.8 V	42	7.8 Ah	393 Wh

EXAMPLE PACKS

7S2P 24V ebike / small pack 14 cells · 25.2 V 5,200 mAh · 131 Wh 6 A max · ≈0.65 kg cells	13S4P 48V ebike standard 52 cells · 46.8 V 10,400 mAh · 487 Wh 12 A max · ≈2.42 kg cells	16S4P DIY powerwall 64 cells · 57.6 V 10,400 mAh · 599 Wh 12 A max · ≈2.98 kg cells	4S6P Power tool replacement 24 cells · 14.4 V 15,600 mAh · 225 Wh 18 A max · ≈1.12 kg cells
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SIMILAR CELLS

Same format and chemistry, within ±500 mAh.

CELL	MAH	CONTINUOUS	WH	WEIGHT	WH/KG
LG LGEP218650 (this cell)	2,600	3 A	9.36	46.5 g	201
LG LGABD11865	3,000	5.8 A	11.3	48.5 g	232
LG LGDBD11865	3,000	5.8 A	11.3	48.5 g	232
Nitecore NL1831	3,100	35 A	11.2	—	—
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

HANDLING & SAFETY

- Never charge above 4.2V or discharge below 2.5V.

- 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-lgep218650
Manufacturer datasheet	https://www.megacellmonitor.com/pdf/vendor_specs/SPEC_LG_LGEP2...
Full cell database	cellsaviors.com/cell-database