

Illustrative render generated from published specifications

LG LGEBE11865

LG · also sold as ICR18650E1

18650 NMC



Live page & updates

3,200 mAh CAPACITY	4.9 A RATED CONTINUOUS	3.75 V NOMINAL · 2.8 – 4.35 V	12 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 #7 of 169 Lowest in databaseHighest More capacity than 96% of 18650 cells in our database, but lower discharge than average.	VOLTAGE OPERATING WINDOW 1.55 V usable Cutoff 2.8 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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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	High capacity means long runtime. Great for everyday carry and extended use.
● Power tools	Not enough discharge or capacity for power tool use.

IDENTITY		ELECTRICAL	
Manufacturer	LG	Rated capacity	3,200 mAh
Model	LGEBE11865	Nominal voltage	3.75 V
Also sold as	ICR18650E1	Max charge voltage	4.35 V
Format	18650	Discharge cutoff	2.8 V
Chemistry	NMC	Energy	12 Wh
Wrap colour	Purple	Internal resistance	70 mΩ
Insulator	White	Max continuous discharge	4.9 A (datasheet)
ENERGY & POWER DENSITY		Discharge C-rate	1.5C
Energy	12 Wh	Standard charge current	1,550 mA
Capacity ranking	#7 of 169 18650s	Typical charge time	2.1 h
		Standard discharge	620mA

C-RATE CONVERSION · 3,200 MAH

C-RATE	CURRENT	THEORETICAL RUNTIME
0.2C	0.64 A	5h 00m
0.5C	1.6 A	2h 00m
1C	3.2 A	1h 00m

Highlighted row is closest to the rated 4.9 A continuous discharge.

CHARGING

RATE	CURRENT	ESTIMATED TIME TO FULL
0.5C	1,600 mA	~2h 00m
1C	3,200 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	9.6 Ah	108 Wh

7S	26.3 V	30.4 V	21	9.6 Ah	252 Wh
10S	37.5 V	43.5 V	30	9.6 Ah	360 Wh
13S	48.8 V	56.6 V	39	9.6 Ah	468 Wh
14S	52.5 V	60.9 V	42	9.6 Ah	504 Wh

EXAMPLE PACKS

7S2P 24V ebike / small pack 14 cells · 26.3 V 6,400 mAh · 168 Wh 10 A max	13S4P 48V ebike standard 52 cells · 48.8 V 12,800 mAh · 624 Wh 20 A max	16S4P DIY powerwall 64 cells · 60 V 12,800 mAh · 768 Wh 20 A max	4S6P Power tool replacement 24 cells · 15 V 19,200 mAh · 288 Wh 29 A max
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SIMILAR CELLS

Same format and chemistry, within ± 500 mAh.

CELL	MAH	CONTINUOUS	WH	WEIGHT	WH/KG
LG LGEBE11865 (this cell)	3,200	4.9 A	12	—	—
LG LGEBMJ11865	3,500	10 A	12.7	—	—
LG LGDBMJ11865	3,500	10 A	12.7	49 g	259
LG LGABF1L1865	3,350	4.9 A	12.2	49 g	248
LG LGGBF1L1865	3,350	4.9 A	12.2	—	—
Panasonic NCR18650B	3,350	4 A	12.1	47.5 g	254

HANDLING & SAFETY

- Never charge above 4.35V 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/lg-lgebe11865

Full cell database

cellsaviors.com/cell-database