

Illustrative render generated from published specifications

LG LGDBMH11865



Live page & updates

LG

18650 NMC

MOOCH-TESTED · 10 A

3,200 mAh CAPACITY	10 A MOOCH CONTINUOUS	3.6 V NOMINAL · 3 – 4.2 V	11.52 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 Top tier for both capacity and discharge. One of the best all-around 18650 cells.	VOLTAGE OPERATING WINDOW 1.2 V usable Cutoff 3 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	Good balance of capacity for range and discharge for hills. Works well in most ebike packs.
Car audio	Might work for smaller setups. Check your amp's peak current draw.
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	May work for lighter-duty tools. Check your tool's current requirements.

IDENTITY		ELECTRICAL	
Manufacturer	LG	Rated capacity	3,200 mAh
Model	LGDBMH11865	Nominal voltage	3.6 V
Format	18650	Max charge voltage	4.2 V
Chemistry	NMC	Discharge cutoff	3 V
Wrap colour	Turquoise	Energy	11.52 Wh
Insulator	White	Internal resistance	80 mΩ
ENERGY & POWER DENSITY		Max continuous discharge	10 A (mooch)
Energy	11.52 Wh	Discharge C-rate	3.1C
Capacity ranking	#7 of 169 18650s	Standard charge current	1,075 mA
		Typical charge time	3 h
		Standard discharge	430mA

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
2C	6.4 A	30m
3C	9.6 A	20m

Highlighted row is closest to the rated 10 A continuous discharge.

CHARGING

RATE	CURRENT	ESTIMATED TIME TO FULL
Standard	1,075 mA	~2h 59m
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	10.8 V	12.6 V	9	9.6 Ah	104 Wh
7S	25.2 V	29.4 V	21	9.6 Ah	242 Wh
10S	36 V	42 V	30	9.6 Ah	346 Wh
13S	46.8 V	54.6 V	39	9.6 Ah	449 Wh
14S	50.4 V	58.8 V	42	9.6 Ah	484 Wh

EXAMPLE PACKS

7S2P 24V ebike / small pack 14 cells · 25.2 V 6,400 mAh · 161 Wh 20 A max	13S4P 48V ebike standard 52 cells · 46.8 V 12,800 mAh · 599 Wh 40 A max	16S4P DIY powerwall 64 cells · 57.6 V 12,800 mAh · 737 Wh 40 A max	4S6P Power tool replacement 24 cells · 14.4 V 19,200 mAh · 276 Wh 60 A max
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SIMILAR CELLS

Same format and chemistry, within ± 500 mAh.

CELL	MAH	CONTINUOUS	WH	WEIGHT	WH/KG
LG LGDBMH11865 (this cell)	3,200	10 A	11.52	—	—
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 4.2V 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 Saviors page	cellsaviors.com/cell-database/lg-lgdbmh11865
Independent test (Mooch)	https://www.e-cigarette-forum.com/threads/lg-mh1-10a-3200mah-1...
Full cell database	cellsaviors.com/cell-database