Illustrative render generated from published specifications

21.8 × 71 mm
71.2 g

LG M58T

LG · released 2022

21700 | NMC | MOOCH-TESTED · 12 A

Live page & updates

5,570 mAh	12 A	3.6 V	20.05 Wh
CAPACITY	MOOCH CONTINUOUS	NOMINAL · 2.5 – 4.2 V	ENERGY · 281.6 WH/KG

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 21700S — #13 of 72

Lowest in database — Highest

More capacity than 83% of 21700 cells in our database, but lower discharge than average.

VOLTAGE OPERATING WINDOW — 1.7 V usable

Cutoff 2.5 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.

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

Manufacturer	**LG**
Model	**M58T**
Format	**21700**
Chemistry	**NMC**
Year released	**2022**
Wrap colour	**Clear**
Terminal	**Flat top**
Protection	**Unprotected**

OPERATING TEMPERATURE

Charging	**0°C to 45°C**
Discharging	**-20°C to 60°C**

ENERGY & POWER DENSITY

Energy	**20.05 Wh**
Specific energy	**281.6 Wh/kg**
Volumetric density	**756.58 Wh/L**
Power density (mass)	**607 W/kg**
Power density (volume)	**1,630 W/L**
Capacity ranking	**#13 of 72 21700s**

PHYSICAL

Diameter	**21.8 mm**
Length	**71 mm**
Weight	**71.2 g**

ELECTRICAL

Rated capacity	**5,570 mAh**
Nominal voltage	**3.6 V**
Max charge voltage	**4.2 V**
Discharge cutoff	**2.5 V**
Energy	**20.05 Wh**
Max continuous discharge	**12 A (mooch)**
Discharge C-rate	**2.2C**
Standard charge current	**1,120 mA**
Typical charge time	**5 h**
Standard discharge	**1120mA**
Cycle life	**500 cycles**

C-RATE CONVERSION · 5,570 MAH

C-RATE	CURRENT	THEORETICAL RUNTIME
0.2C	1.11 A	5h 00m
0.5C	2.79 A	2h 00m
1C	5.57 A	1h 00m
2C	11.14 A	30m

Highlighted row is closest to the rated 12 A continuous discharge.

CHARGING

RATE	CURRENT	ESTIMATED TIME TO FULL
Standard	1,120 mA	~4h 58m
0.5C	2,785 mA	~2h 00m
1C	5,570 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	16.7 Ah	180 Wh
7S	25.2 V	29.4 V	21	16.7 Ah	421 Wh
10S	36 V	42 V	30	16.7 Ah	602 Wh
13S	46.8 V	54.6 V	39	16.7 Ah	782 Wh
14S	50.4 V	58.8 V	42	16.7 Ah	842 Wh

EXAMPLE PACKS

7S2P
24V ebike / small pack

14 cells · 25.2 V

11,140 mAh · 281 Wh

24 A max · ≈1 kg cells

13S4P
48V ebike standard

52 cells · 46.8 V

22,280 mAh · 1,043 Wh

48 A max · ≈3.7 kg cells

16S4P
DIY powerwall

64 cells · 57.6 V

22,280 mAh · 1,283 Wh

48 A max · ≈4.56 kg cells

4S6P
Power tool replacement

24 cells · 14.4 V

33,420 mAh · 481 Wh

72 A max · ≈1.71 kg cells

SIMILAR CELLS

Same format and chemistry, within ±500 mAh.

CELL	MAH	CONTINUOUS	WH	WEIGHT	WH/KG
LG M58T (this cell)	**5,570**	**12 A**	**20.05**	**71.2 g**	**282**
Linkdata 60P	6,000	60 A	21.6	68 g	318
Vapcell F60	6,000	12 A	21.6	74 g	292
Reliance RH60	5,850	20 A	21.1	71 g	297
Reliance RS60	5,850	50 A	21.1	71.5 g	295
Lishen LR2170SK	5,800	16 A	20.9	68 g	307

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-m58t
Manufacturer datasheet	https://18650baterie.pl/wp-content/uploads/2025/05/Datasheet-L...
Independent test (Mooch)	https://www.e-cigarette-forum.com/threads/bench-test-results-l...
Full cell database	cellsaviors.com/cell-database