

Illustrative render generated from published specifications

18.3 × 49.8 mm
40 g

Efest PURPLE 10A 1000mAh



Live page & updates

Efest

- 18500
- LMO
- MOOCH-TESTED · 10 A

1,000 mAh CAPACITY	10 A MOOCH CONTINUOUS	3.6 V NOMINAL · 3 – 4.2 V	3.6 Wh ENERGY · 90 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. The cell image is an illustrative render generated from published specifications, not a photograph.

CAPACITY AMONG 18500S #3 of 3 Lowest in databaseHighest A mid-range 18500 cell. Solid for builds that don't need extreme capacity or discharge.	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	Too low capacity for practical powerwall use. You'd need too many cells.
Ebike packs	Not enough discharge for ebike use. Voltage sag would be a problem under load.
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	Lower capacity means shorter runtime. Better cells are available for flashlight use.
Power tools	May work for lighter-duty tools. Check your tool's current requirements.

C-RATE CONVERSION · 1,000 MAH

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

RATE	CURRENT	ESTIMATED TIME TO FULL
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0.5C 500 mA ~2h 00m

1C 1,000 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	3 Ah	32 Wh
7S	25.2 V	29.4 V	21	3 Ah	76 Wh
10S	36 V	42 V	30	3 Ah	108 Wh
13S	46.8 V	54.6 V	39	3 Ah	140 Wh
14S	50.4 V	58.8 V	42	3 Ah	151 Wh

EXAMPLE PACKS

7S2P

24V ebike / small pack

14 cells · 25.2 V

2,000 mAh · 50 Wh

20 A max · ≈0.56 kg cells

13S4P

48V ebike standard

52 cells · 46.8 V

4,000 mAh · 187 Wh

40 A max · ≈2.08 kg cells

16S4P

DIY powerwall

64 cells · 57.6 V

4,000 mAh · 230 Wh

40 A max · ≈2.56 kg cells

4S6P

Power tool replacement

24 cells · 14.4 V

6,000 mAh · 86 Wh

60 A max · ≈0.96 kg cells

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/efest-purple-10a-1000mah
Independent test (Mooch)	https://www.e-cigarette-forum.com/threads/efest-metallic-purpl...
Full cell database	cellsaviors.com/cell-database