

Illustrative render generated from published specifications

26.22 × 65.11 mm

Efest PURPLE

32A 3500mAh



Live page & updates

Efest · released 2014

26650LMO

MOOCH-TESTED · 32 A

3,500mAh CAPACITY	32A MOOCH CONTINUOUS	3.6V NOMINAL · 2.5 – 4.2 V	12.6Wh 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 26650S

#12 of 15

Lowest in database

Highest

A mid-range 26650 cell. Solid for builds that don't need extreme capacity or discharge.

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	Enough discharge to handle amplifier bursts without voltage sag.
High-drain vaping	Above the 25A Mooch CDR threshold. Suitable for regulated and mechanical mods.
Flashlights	High capacity means long runtime. Great for everyday carry and extended use.
Power tools	Sufficient discharge and capacity for most power tool packs.

IDENTITY

Manufacturer	Efest
Model	PURPLE 32A 3500mAh
Format	26650
Chemistry	LMO
Year released	2014
Wrap colour	Purple
Terminal	Flat top
Protection	Unprotected

OPERATING TEMPERATURE

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

ENERGY & POWER DENSITY

Energy	12.6 Wh
Volumetric density	358.4 Wh/L
Power density (volume)	3,277 W/L
Capacity ranking	#12 of 15 26650s

C-RATE CONVERSION · 3,500 MAH

C-RATE	CURRENT	THEORETICAL RUNTIME
0.2C	0.7 A	5h 00m
0.5C	1.75 A	2h 00m
1C	3.5 A	1h 00m
2C	7 A	30m
3C	10.5 A	20m
5C	17.5 A	12m
8C	28 A	7m 30s

Highlighted row is closest to the rated 32 A continuous discharge.

PHYSICAL

Diameter	26.22 mm
Length	65.11 mm

ELECTRICAL

Rated capacity	3,500 mAh
Nominal voltage	3.6 V
Max charge voltage	4.2 V
Discharge cutoff	2.5 V
Energy	12.6 Wh
Internal resistance	13 mΩ
Max continuous discharge	32 A (mooch)
Discharge C-rate	9.1C
Cycle life	500 cycles

CHARGING

Rate	Current	Estimated Time to Full
0.5C	1,750 mA	~2h 00m
1C	3,500 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	10.5 Ah	113 Wh
7S	25.2 V	29.4 V	21	10.5 Ah	265 Wh
10S	36 V	42 V	30	10.5 Ah	378 Wh
13S	46.8 V	54.6 V	39	10.5 Ah	491 Wh
14S	50.4 V	58.8 V	42	10.5 Ah	529 Wh

EXAMPLE PACKS

7S2P 24V ebike / small pack 14 cells · 25.2 V 7,000 mAh · 176 Wh 64 A max	13S4P 48V ebike standard 52 cells · 46.8 V 14,000 mAh · 655 Wh 128 A max	16S4P DIY powerwall 64 cells · 57.6 V 14,000 mAh · 806 Wh 128 A max	4S6P Power tool replacement 24 cells · 14.4 V 21,000 mAh · 302 Wh 192 A max
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SIMILAR CELLS

Same format and chemistry, within ±500 mAh.

Cell	MAH	Continuous	WH	Weight	WH/KG
Efest PURPLE 32A 3500mAh (this cell)	3,500	32 A	12.6	—	—
Xtar BLACK 35A 3200mAh	3,200	35 A	11.5	—	—

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/efest-purple-32a-3500mah
Manufacturer datasheet	https://lygte-info.dk/review/batteries2012/Efest%20IMR26650%20...
Independent test (Mooch)	https://www.e-cigarette-forum.com/threads/efest-purple-32a-64a...
Full cell database	cellsaviors.com/cell-database