Illustrative render generated from published specifications

Efest EFEST 35A 2900mAh

Live page & updates

Efest · released 2015

18650 LMO

MOOCH-TESTED · 35 A

2,900 mAh	35 A	3.6 V	10.44 Wh
CAPACITY	MOOCH CONTINUOUS	NOMINAL · 2.5 – 4.2 V	ENERGY

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

#72 of 279

Lowest in database — Highest

Higher discharge than 94% of 18650 cells in our database. Great for high-drain builds.

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	Decent runtime. Works well for most flashlights.
Power tools	Sufficient discharge and capacity for most power tool packs.

IDENTITY

Manufacturer	**Efest**
Model	**EFEST 35A 2900mAh**
Format	**18650**
Chemistry	**LMO**
Year released	**2015**
Wrap colour	**Purple**
Terminal	**Flat top**
Protection	**Unprotected**

ELECTRICAL

Rated capacity	**2,900 mAh**
Nominal voltage	**3.6 V**
Max charge voltage	**4.2 V**
Discharge cutoff	**2.5 V**
Energy	**10.44 Wh**
Max continuous discharge	**35 A (mooch)**
Discharge C-rate	**12.1C**
Standard charge current	**2,000 mA**
Typical charge time	**1.5 h**

ENERGY & POWER DENSITY

Energy	**10.44 Wh**
Capacity ranking	**#72 of 279 18650s**

C-RATE CONVERSION · 2,900 MAH

C-RATE	CURRENT	THEORETICAL RUNTIME
0.2C	0.58 A	5h 00m
0.5C	1.45 A	2h 00m
1C	2.9 A	1h 00m
2C	5.8 A	30m
3C	8.7 A	20m
5C	14.5 A	12m
8C	23.2 A	7m 30s
10C	29 A	6m

Highlighted row is closest to the rated 35 A continuous discharge.

CHARGING

RATE	CURRENT	ESTIMATED TIME TO FULL
0.5C	1,450 mA	~2h 00m
Standard	2,000 mA	~1h 27m

1C	2,900 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	8.7 Ah	94 Wh
7S	25.2 V	29.4 V	21	8.7 Ah	219 Wh
10S	36 V	42 V	30	8.7 Ah	313 Wh
13S	46.8 V	54.6 V	39	8.7 Ah	407 Wh
14S	50.4 V	58.8 V	42	8.7 Ah	438 Wh

EXAMPLE PACKS

7S2P
24V ebike / small pack

14 cells · 25.2 V
5,800 mAh · 146 Wh
70 A max

13S4P
48V ebike standard

52 cells · 46.8 V
11,600 mAh · 543 Wh
140 A max

16S4P
DIY powerwall

64 cells · 57.6 V
11,600 mAh · 668 Wh
140 A max

4S6P
Power tool replacement

24 cells · 14.4 V
17,400 mAh · 251 Wh
210 A max

SIMILAR CELLS

Same format and chemistry, within ±500 mAh.

CELL	MAH	CONTINUOUS	WH	WEIGHT	WH/KG
Efest EFEST 35A 2900mAh (this cell)	**2,900**	**35 A**	**10.44**	**—**	**—**
AWT 40A 3300mAh	3,300	40 A	11.9	54 g	220
Efest 18650 2800mAh 35A	2,800	35 A	10.1	46 g	219
AWT 40A 2600mAh	2,600	40 A	9.4	60 g	156
AWT YELLOW 40A 2600mAh	2,600	40 A	9.4	60 g	156
Golisi S26	2,600	25 A	9.4	46 g	203

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-efest-35a-2900mah
Independent test (Mooch)	https://www.e-cigarette-forum.com/threads/efest-35a-2900mah-18...
Full cell database	cellsaviors.com/cell-database