

Illustrative render generated from published specifications

# Efest EFEST 35A

## 2900mAh



Live page & updates

Efest · released 2015

18650

LMO

MOOCH-TESTED · 35 A

|                                          |                                             |                                                   |                                       |
|------------------------------------------|---------------------------------------------|---------------------------------------------------|---------------------------------------|
| <div>2,900 mAh</div> <div>CAPACITY</div> | <div>35 A</div> <div>MOOCH CONTINUOUS</div> | <div>3.6 V</div> <div>NOMINAL · 2.5 – 4.2 V</div> | <div>10.44 Wh</div> <div>ENERGY</div> |
|------------------------------------------|---------------------------------------------|---------------------------------------------------|---------------------------------------|

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 databaseHighest

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 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.

### 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               |                   | ELECTRICAL               |              |
|------------------------|-------------------|--------------------------|--------------|
| Manufacturer           | Efest             | Rated capacity           | 2,900 mAh    |
| Model                  | EFEST 35A 2900mAh | Nominal voltage          | 3.6 V        |
| Format                 | 18650             | Max charge voltage       | 4.2 V        |
| Chemistry              | LMO               | Discharge cutoff         | 2.5 V        |
| Year released          | 2015              | Energy                   | 10.44 Wh     |
| Wrap colour            | Purple            | Max continuous discharge | 35 A (mooch) |
| Terminal               | Flat top          | Discharge C-rate         | 12.1C        |
| Protection             | Unprotected       | Standard charge current  | 2,000 mA     |
| ENERGY & POWER DENSITY |                   | Typical charge time      | 1.5 h        |

|                  |                   |
|------------------|-------------------|
| 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

|                                                                                                  |                                                                                                 |                                                                                            |                                                                                                    |
|--------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|
| <b>7S2P</b><br>24V ebike / small pack<br><br>14 cells · 25.2 V<br>5,800 mAh · 146 Wh<br>70 A max | <b>13S4P</b><br>48V ebike standard<br><br>52 cells · 46.8 V<br>11,600 mAh · 543 Wh<br>140 A max | <b>16S4P</b><br>DIY powerwall<br><br>64 cells · 57.6 V<br>11,600 mAh · 668 Wh<br>140 A max | <b>4S6P</b><br>Power tool replacement<br><br>24 cells · 14.4 V<br>17,400 mAh · 251 Wh<br>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  | —      | —     |
| Efest 18650 2800mAh 35A             | 2,800 | 35 A       | 10.1  | 46 g   | 219   |
| AWT 40A 2600mAh                     | 2,600 | 40 A       | 9.4   | —      | —     |
| AWT YELLOW 40A 2600mAh              | 2,600 | 40 A       | 9.4   | —      | —     |
| 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

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|                          |                                                                                                                                                   |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| Cell Saviors page        | <a href="https://cellsaviors.com/cell-database/efest-efest-35a-2900mah">cellsaviors.com/cell-database/efest-efest-35a-2900mah</a>                 |
| Independent test (Mooch) | <a href="https://www.e-cigarette-forum.com/threads/efest-35a-2900mah-18...">https://www.e-cigarette-forum.com/threads/efest-35a-2900mah-18...</a> |
| Full cell database       | <a href="https://cellsaviors.com/cell-database">cellsaviors.com/cell-database</a>                                                                 |