

Illustrative render generated from published specifications

18.35 × 65.1 mm  
48 g

EVE INR18650-30P



Live page & updates

EVE

18650 NMC

MOOCH-TESTED · 30 A

|                                          |                                             |                                                   |                                                  |
|------------------------------------------|---------------------------------------------|---------------------------------------------------|--------------------------------------------------|
| <div>3,000 mAh</div> <div>CAPACITY</div> | <div>30 A</div> <div>MOOCH CONTINUOUS</div> | <div>3.6 V</div> <div>NOMINAL · 2.5 – 4.2 V</div> | <div>10.8 Wh</div> <div>ENERGY · 225 WH/KG</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.

|                                                                                                                                                                                           |                                                                                                                                                                                                                                                    |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <div>CAPACITY AMONG 18650S</div> <div>#37 of 279</div> <div>Lowest in database Highest</div> <div>Top tier for both capacity and discharge. One of the best all-around 18650 cells.</div> | <div>VOLTAGE OPERATING WINDOW</div> <div>1.7 V usable</div> <div>Cutoff 2.5 V Nominal 3.6 V Max 4.2 V</div> <div>Below nominal the cell sags fast under load; above it, the last of the capacity fills slowly on the constant-voltage taper.</div> |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

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 | EVE                         |
| Model        | INR18650-30P                |
| Format       | 18650                       |
| Chemistry    | NMC                         |
| Wrap colour  | <div><div></div> Pink</div> |
| Terminal     | Flat top                    |
| Protection   | Unprotected                 |

OPERATING TEMPERATURE

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

ENERGY & POWER DENSITY

|                        |                   |
|------------------------|-------------------|
| Energy                 | 10.8 Wh           |
| Specific energy        | 225 Wh/kg         |
| Volumetric density     | 627.31 Wh/L       |
| Power density (mass)   | 2,250 W/kg        |
| Power density (volume) | 6,273 W/L         |
| Capacity ranking       | #37 of 279 18650s |

PHYSICAL

|          |          |
|----------|----------|
| Diameter | 18.35 mm |
| Length   | 65.1 mm  |
| Weight   | 48 g     |

ELECTRICAL

|                          |              |
|--------------------------|--------------|
| Rated capacity           | 3,000 mAh    |
| Nominal voltage          | 3.6 V        |
| Max charge voltage       | 4.2 V        |
| Discharge cutoff         | 2.5 V        |
| Energy                   | 10.8 Wh      |
| Internal resistance      | 18 mΩ        |
| Max continuous discharge | 30 A (mooch) |
| Discharge C-rate         | 10C          |
| Standard charge current  | 1,500 mA     |
| Typical charge time      | 2 h          |
| Standard discharge       | 600mA        |
| Cycle life               | 250 cycles   |

C-RATE CONVERSION · 3,000 MAH

| C-RATE | CURRENT | THEORETICAL RUNTIME |
|--------|---------|---------------------|
| 0.2C   | 0.6 A   | 5h 00m              |
| 0.5C   | 1.5 A   | 2h 00m              |
| 1C     | 3 A     | 1h 00m              |
| 2C     | 6 A     | 30m                 |
| 3C     | 9 A     | 20m                 |
| 5C     | 15 A    | 12m                 |
| 8C     | 24 A    | 7m 30s              |

|     |      |    |
|-----|------|----|
| 10C | 30 A | 6m |
|-----|------|----|

Highlighted row is closest to the rated 30 A continuous discharge.

CHARGING

| RATE | CURRENT  | ESTIMATED TIME TO FULL |
|------|----------|------------------------|
| 0.5C | 1,500 mA | ~2h 00m                |
| 1C   | 3,000 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           | 9 Ah     | 97 Wh  |
| 7S     | 25.2 V  | 29.4 V        | 21          | 9 Ah     | 227 Wh |
| 10S    | 36 V    | 42 V          | 30          | 9 Ah     | 324 Wh |
| 13S    | 46.8 V  | 54.6 V        | 39          | 9 Ah     | 421 Wh |
| 14S    | 50.4 V  | 58.8 V        | 42          | 9 Ah     | 454 Wh |

EXAMPLE PACKS

|                                                                                                                                                   |                                                                                                                                                 |                                                                                                                                             |                                                                                                                                                     |
|---------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| <div>7S2P</div> <div>24V ebike / small pack</div> <div>14 cells · 25.2 V</div> <div>6,000 mAh · 151 Wh</div> <div>60 A max · ≈0.67 kg cells</div> | <div>13S4P</div> <div>48V ebike standard</div> <div>52 cells · 46.8 V</div> <div>12,000 mAh · 562 Wh</div> <div>120 A max · ≈2.5 kg cells</div> | <div>16S4P</div> <div>DIY powerwall</div> <div>64 cells · 57.6 V</div> <div>12,000 mAh · 691 Wh</div> <div>120 A max · ≈3.07 kg cells</div> | <div>4S6P</div> <div>Power tool replacement</div> <div>24 cells · 14.4 V</div> <div>18,000 mAh · 259 Wh</div> <div>180 A max · ≈1.15 kg cells</div> |
|---------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|

## SIMILAR CELLS

Same format and chemistry, within  $\pm 500$  mAh.

| CELL                         | MAH   | CONTINUOUS | WH   | WEIGHT | WH/KG |
|------------------------------|-------|------------|------|--------|-------|
| EVE INR18650-30P (this cell) | 3,000 | 30 A       | 10.8 | 48 g   | 225   |
| LG LGEBMJ11865               | 3,500 | 10 A       | 12.7 | 49 g   | 260   |
| LG LGDBMJ11865               | 3,500 | 10 A       | 12.7 | 49 g   | 259   |
| AWT AWT 35A 3500mAh          | 3,500 | 35 A       | 12.6 | —      | —     |
| Epoch PROTECTED              | 3,500 | 8 A        | 12.6 | 49.1 g | 257   |
| EVE INR18650-35V             | 3,500 | 10 A       | 12.6 | 47 g   | 268   |

## 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        | <a href="https://cellsaviors.com/cell-database/eve-inr18650-30p">cellsaviors.com/cell-database/eve-inr18650-30p</a>                               |
| Manufacturer datasheet   | <a href="https://thebatteryshop.eu/shop_ordered/92904/pic/EVE_INR18650-...">https://thebatteryshop.eu/shop_ordered/92904/pic/EVE_INR18650-...</a> |
| Independent test (Mooch) | <a href="https://www.e-cigarette-forum.com/threads/bench-test-results-e...">https://www.e-cigarette-forum.com/threads/bench-test-results-e...</a> |
| Full cell database       | <a href="https://cellsaviors.com/cell-database">cellsaviors.com/cell-database</a>                                                                 |