Illustrative render generated from published specifications

21.5 × 70.8 mm
71 g

EVE INR21700-58E

EVE · released 2023

21700 | NMC | MOOCH-TESTED · 16 A

Live page & updates

5,700 mAh	16 A	3.6 V	20.52 Wh
CAPACITY	MOOCH CONTINUOUS	NOMINAL · 2.5 – 4.2 V	ENERGY · 289.01 WH/KG

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 21700S — #11 of 72

Lowest in database — Highest

More capacity than 86% of 21700 cells in our database, but lower discharge than average.

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	Might work for smaller setups. Check your amp's peak current draw.
High-drain vaping	Usable in regulated mods at moderate wattage. Not recommended for 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	**INR21700-58E**
Format	**21700**
Chemistry	**NMC**
Year released	**2023**
Wrap colour	**Orange**
Terminal	**Flat top**
Protection	**Unprotected**

OPERATING TEMPERATURE

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

ENERGY & POWER DENSITY

Energy	**20.52 Wh**
Specific energy	**289.01 Wh/kg**
Volumetric density	**798.32 Wh/L**
Power density (mass)	**811 W/kg**
Power density (volume)	**2,241 W/L**
Capacity ranking	**#11 of 72 21700s**

PHYSICAL

Diameter	**21.5 mm**
Length	**70.8 mm**
Weight	**71 g**

ELECTRICAL

Rated capacity	**5,700 mAh**
Nominal voltage	**3.6 V**
Max charge voltage	**4.2 V**
Discharge cutoff	**2.5 V**
Energy	**20.52 Wh**
Max continuous discharge	**16 A (mooch)**
Discharge C-rate	**2.8C**
Standard charge current	**1,120 mA**
Typical charge time	**5.1 h**
Standard discharge	**1120mA**
Cycle life	**500 cycles**

C-RATE CONVERSION · 5,700 MAH

C-RATE	CURRENT	THEORETICAL RUNTIME
0.2C	1.14 A	5h 00m
0.5C	2.85 A	2h 00m
1C	5.7 A	1h 00m
2C	11.4 A	30m

Highlighted row is closest to the rated 16 A continuous discharge.

CHARGING

RATE	CURRENT	ESTIMATED TIME TO FULL
Standard	1,120 mA	~5h 05m
0.5C	2,850 mA	~2h 00m
1C	5,700 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	17.1 Ah	185 Wh
7S	25.2 V	29.4 V	21	17.1 Ah	431 Wh
10S	36 V	42 V	30	17.1 Ah	616 Wh
13S	46.8 V	54.6 V	39	17.1 Ah	800 Wh
14S	50.4 V	58.8 V	42	17.1 Ah	862 Wh

EXAMPLE PACKS

7S2P

24V ebike / small pack

14 cells · 25.2 V

11,400 mAh · 287 Wh

32 A max · ≈0.99 kg cells

13S4P

48V ebike standard

52 cells · 46.8 V

22,800 mAh · 1,067 Wh

64 A max · ≈3.69 kg cells

16S4P

DIY powerwall

64 cells · 57.6 V

22,800 mAh · 1,313 Wh

64 A max · ≈4.54 kg cells

4S6P

Power tool replacement

24 cells · 14.4 V

34,200 mAh · 492 Wh

96 A max · ≈1.7 kg cells

SIMILAR CELLS

Same format and chemistry, within ±500 mAh.

CELL	MAH	CONTINUOUS	WH	WEIGHT	WH/KG
EVE INR21700-58E (this cell)	**5,700**	**16 A**	**20.52**	**71 g**	**289**
Linkdata 60P	6,000	60 A	21.6	68 g	318
Vapcell F60	6,000	12 A	21.6	74 g	292
Reliance RH60	5,850	20 A	21.1	71 g	297
Reliance RS60	5,850	50 A	21.1	71.5 g	295
Lishen LR2170SK	5,800	16 A	20.9	68 g	307

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/eve-inr21700-58e
Manufacturer datasheet	https://www.rcscomponents.kiev.ua/datasheets/INR21700-58E-D06....
Independent test (Mooch)	https://www.e-cigarette-forum.com/threads/bench-test-results-e...
Full cell database	cellsaviors.com/cell-database