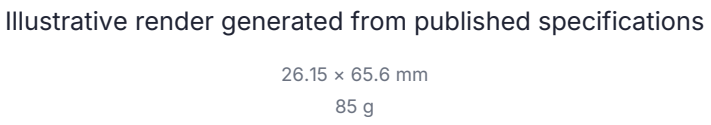

Illustrative render generated from published specifications

26.15 × 65.6 mm
85 g

Enercig EC-IFR20C

Enercig · released 2018

26650 | LFP | MOOCH-TESTED · 46 A

Live page & updates

2,300 mAh	46 A	3.2 V	7.36 Wh
CAPACITY	MOOCH CONTINUOUS	NOMINAL · 2.5 – 3.65 V	ENERGY · 86.59 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 26650S

#15 of 15

Lowest in database — Highest

Higher discharge than 87% of 26650 cells in our database. Great for high-drain builds.

VOLTAGE OPERATING WINDOW

1.15 V usable

Cutoff 2.5 V — Nominal 3.2 V — Max 3.65 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	Usable for powerwalls but lower capacity means you'll need more cells to hit your target kWh.
Ebike packs	Marginal. Check your motor's peak draw first. You might get voltage sag under load.
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	Lower capacity means shorter runtime. Better cells are available for flashlight use.
Power tools	Sufficient discharge and capacity for most power tool packs.

IDENTITY

Manufacturer	**Enercig**
Model	**EC-IFR20C**
Format	**26650**
Chemistry	**LFP**
Year released	**2018**
Wrap colour	**Blue**
Terminal	**Flat top**
Protection	**Unprotected**

OPERATING TEMPERATURE

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

ENERGY & POWER DENSITY

Energy	**7.36 Wh**
Specific energy	**86.59 Wh/kg**
Volumetric density	**208.9 Wh/L**
Power density (mass)	**1,732 W/kg**
Power density (volume)	**4,178 W/L**
Capacity ranking	**#15 of 15 26650s**

PHYSICAL

Diameter	**26.15 mm**
Length	**65.6 mm**
Weight	**85 g**

ELECTRICAL

Rated capacity	**2,300 mAh**
Nominal voltage	**3.2 V**
Max charge voltage	**3.65 V**
Discharge cutoff	**2.5 V**
Energy	**7.36 Wh**
Internal resistance	**13.2 mΩ**
Max continuous discharge	**46 A (mooch)**
Discharge C-rate	**20C**
Standard charge current	**2,000 mA**
Typical charge time	**1.2 h**
Standard discharge	**2300mA**
Cycle life	**2,000 cycles**

C-RATE CONVERSION · 2,300 MAH

C-RATE	CURRENT	THEORETICAL RUNTIME
0.2C	0.46 A	5h 00m
0.5C	1.15 A	2h 00m
1C	2.3 A	1h 00m
2C	4.6 A	30m
3C	6.9 A	20m
5C	11.5 A	12m

8C	18.4 A	7m 30s
10C	23 A	6m
15C	34.5 A	4m
20C	**46 A**	**3m**

Highlighted row is closest to the rated 46 A continuous discharge.

CHARGING

RATE	CURRENT	ESTIMATED TIME TO FULL
0.5C	1,150 mA	~2h 00m
Standard	2,000 mA	~1h 09m
1C	2,300 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
4S	12.8 V	14.6 V	12	6.9 Ah	88 Wh
8S	25.6 V	29.2 V	24	6.9 Ah	177 Wh
16S	51.2 V	58.4 V	48	6.9 Ah	353 Wh

EXAMPLE PACKS

4S1P
12V system

4 cells · 12.8 V

2,300 mAh · 29 Wh

46 A max · ≈0.34 kg cells

4S2P
12V with more capacity

8 cells · 12.8 V

4,600 mAh · 59 Wh

92 A max · ≈0.68 kg cells

8S1P
24V system

8 cells · 25.6 V

2,300 mAh · 59 Wh

46 A max · ≈0.68 kg cells

16S1P
Powerwall / 48V ebike

16 cells · 51.2 V

2,300 mAh · 118 Wh

46 A max · ≈1.36 kg cells

SIMILAR CELLS

Same format and chemistry, within ±500 mAh.

CELL	MAH	CONTINUOUS	WH	WEIGHT	WH/KG
Enercig EC-IFR20C (this cell)	**2,300**	**46 A**	**7.36**	**85 g**	**87**
Vapcell LiFePO4	2,600	55 A	8.3	90 g	92

HANDLING & SAFETY

- Never charge above 3.65V 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/enercig-ec-ifr20c
Independent test (Mooch)	https://www.e-cigarette-forum.com/threads/bench-test-results-e...
Full cell database	cellsaviors.com/cell-database