Illustrative render generated from published specifications

26.6 × 65.1 mm
90 g

Vapcell LiFePO4

Vapcell · released 2019

26650 | LFP | MOOCH-TESTED · 55 A

Live page & updates

2,600 mAh	55 A	3.2 V	8.32 Wh
CAPACITY	MOOCH CONTINUOUS	NOMINAL · 2 – 3.6 V	ENERGY · 92.44 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

#14 of 15

Lowest in database — Highest

Higher discharge than 93% of 26650 cells in our database. Great for high-drain builds.

VOLTAGE OPERATING WINDOW

1.6 V usable

Cutoff 2 V — Nominal 3.2 V — Max 3.6 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	**Vapcell**
Model	**LiFePO4**
Format	**26650**
Chemistry	**LFP**
Year released	**2019**
Wrap colour	**Red**
Terminal	**Flat top**
Protection	**Unprotected**

ENERGY & POWER DENSITY

Energy	**8.32 Wh**
Specific energy	**92.44 Wh/kg**
Volumetric density	**229.98 Wh/L**
Power density (mass)	**1,956 W/kg**
Power density (volume)	**4,865 W/L**
Capacity ranking	**#14 of 15 26650s**

PHYSICAL

Diameter	**26.6 mm**
Length	**65.1 mm**
Weight	**90 g**

ELECTRICAL

Rated capacity	**2,600 mAh**
Nominal voltage	**3.2 V**
Max charge voltage	**3.6 V**
Discharge cutoff	**2 V**
Energy	**8.32 Wh**
Internal resistance	**5 mΩ**
Max continuous discharge	**55 A (mooch)**
Discharge C-rate	**21.2C**
Standard charge current	**2,500 mA**
Typical charge time	**1 h**
Standard discharge	**520mA**

C-RATE CONVERSION · 2,600 MAH

C-RATE	CURRENT	THEORETICAL RUNTIME
0.2C	0.52 A	5h 00m
0.5C	1.3 A	2h 00m
1C	2.6 A	1h 00m
2C	5.2 A	30m
3C	7.8 A	20m
5C	13 A	12m
8C	20.8 A	7m 30s
10C	26 A	6m
15C	39 A	4m
20C	52 A	3m

Highlighted row is closest to the rated 55 A continuous discharge.

CHARGING

RATE	CURRENT	ESTIMATED TIME TO FULL
0.5C	1,300 mA	~2h 00m
Standard	2,500 mA	~1h 02m
1C	2,600 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	14.4 V	12	7.8 Ah	100 Wh
8S	25.6 V	28.8 V	24	7.8 Ah	200 Wh
16S	51.2 V	57.6 V	48	7.8 Ah	399 Wh

EXAMPLE PACKS

4S1P

12V system

4 cells · 12.8 V

2,600 mAh · 33 Wh

55 A max · ≈0.36 kg cells

4S2P

12V with more capacity

8 cells · 12.8 V

5,200 mAh · 67 Wh

110 A max · ≈0.72 kg cells

8S1P

24V system

8 cells · 25.6 V

2,600 mAh · 67 Wh

55 A max · ≈0.72 kg cells

16S1P

Powerwall / 48V ebike

16 cells · 51.2 V

2,600 mAh · 133 Wh

55 A max · ≈1.44 kg cells

SIMILAR CELLS

Same format and chemistry, within ±500 mAh.

CELL	MAH	CONTINUOUS	WH	WEIGHT	WH/KG
Vapcell LiFePO4 (this cell)	**2,600**	**55 A**	**8.32**	**90 g**	**92**
Enercig EC-IFR20C	2,300	46 A	7.4	85 g	87

HANDLING & SAFETY

- Never charge above 3.6V or discharge below 2V.
- 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/vapcell-lifepo4
Independent test (Mooch)	https://www.e-cigarette-forum.com/threads/bench-test-results-v...
Full cell database	cellsaviors.com/cell-database