

Illustrative render generated from published specifications

26.1 × 65.5 mm
95 g

Vapcell
INR26650-5000



Live page & updates

Vapcell · released 2020

26650

NMC

MOOCH-TESTED · 20 A

5,000 mAh CAPACITY	20 A MOOCH CONTINUOUS	3.6 V NOMINAL · 2.5 – 4.2 V	18 Wh ENERGY · 189.47 WH/KG
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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

#4 of 15

Lowest in database

Highest

More capacity than 80% of 26650 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	Enough discharge to handle amplifier bursts without voltage sag.
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		PHYSICAL	
Manufacturer	Vapcell	Diameter	26.1 mm
Model	INR26650-5000	Length	65.5 mm
Format	26650	Weight	95 g
Chemistry	NMC	ELECTRICAL	
Year released	2020		
Wrap colour	Purple		
Terminal	Flat top		
Protection	Unprotected		
ENERGY & POWER DENSITY		Rated capacity	5,000 mAh
Energy	18 Wh	Nominal voltage	3.6 V
Specific energy	189.47 Wh/kg	Max charge voltage	4.2 V
Volumetric density	513.64 Wh/L	Discharge cutoff	2.5 V
Power density (mass)	758 W/kg	Energy	18 Wh
Power density (volume)	2,055 W/L	Internal resistance	15 mΩ
Capacity ranking	#4 of 15 26650s	Max continuous discharge	20 A (mooch)
		Discharge C-rate	4C
		Standard charge current	2,000 mA
		Typical charge time	2.5 h
		Standard discharge	1000mA

C-RATE CONVERSION · 5,000 MAH

C-RATE	CURRENT	THEORETICAL RUNTIME
0.2C	1 A	5h 00m
0.5C	2.5 A	2h 00m
1C	5 A	1h 00m
2C	10 A	30m
3C	15 A	20m

Highlighted row is closest to the rated 20 A continuous discharge.

CHARGING

RATE	CURRENT	ESTIMATED TIME TO FULL
Standard	2,000 mA	~2h 30m
0.5C	2,500 mA	~2h 00m

1C

5,000 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	15 Ah	162 Wh
7S	25.2 V	29.4 V	21	15 Ah	378 Wh
10S	36 V	42 V	30	15 Ah	540 Wh
13S	46.8 V	54.6 V	39	15 Ah	702 Wh
14S	50.4 V	58.8 V	42	15 Ah	756 Wh

EXAMPLE PACKS

7S2P 24V ebike / small pack 14 cells · 25.2 V 10,000 mAh · 252 Wh 40 A max · ≈1.33 kg cells	13S4P 48V ebike standard 52 cells · 46.8 V 20,000 mAh · 936 Wh 80 A max · ≈4.94 kg cells	16S4P DIY powerwall 64 cells · 57.6 V 20,000 mAh · 1,152 Wh 80 A max · ≈6.08 kg cells	4S6P Power tool replacement 24 cells · 14.4 V 30,000 mAh · 432 Wh 120 A max · ≈2.28 kg cells
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SIMILAR CELLS

Same format and chemistry, within ±500 mAh.

CELL	MAH	CONTINUOUS	WH	WEIGHT	WH/KG
Vapcell INR26650-5000 (this cell)	5,000	20 A	18	95 g	189
Vapcell INR26650-5500	5,500	20 A	19.8	96 g	206
Vapcell G53	5,300	20 A	19.1	95 g	201

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/vapcell-inr26650-5000
Manufacturer datasheet	https://lygte-info.dk/review/batteries2012/Vapcell%20INR26650%...
Independent test (Mooch)	https://www.e-cigarette-forum.com/threads/bench-test-results-v...
Full cell database	cellsaviors.com/cell-database