

Illustrative render generated from published specifications

18.3 × 65 mm

BFN 18650-2200

BFN

18650

NMC



Live page & updates

MOOCH-TESTED · 25 A

2,200 mAh CAPACITY	25 A MOOCH CONTINUOUS	3.7 V NOMINAL · 3 – 4.2 V	8.14 Wh ENERGY
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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 18650S #87 of 169 Lowest in database Highest Higher discharge than 96% of 18650 cells in our database. Great for high-drain builds.	VOLTAGE OPERATING WINDOW 1.2 V usable Cutoff 3 V Nominal 3.7 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.
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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.

Standard	440 mA	~5h 00m
0.5C	1,100 mA	~2h 00m
1C	2,200 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	11.1 V	12.6 V	9	6.6 Ah	73 Wh
7S	25.9 V	29.4 V	21	6.6 Ah	171 Wh
10S	37 V	42 V	30	6.6 Ah	244 Wh
13S	48.1 V	54.6 V	39	6.6 Ah	317 Wh
14S	51.8 V	58.8 V	42	6.6 Ah	342 Wh

EXAMPLE PACKS

7S2P 24V ebike / small pack 14 cells · 25.9 V 4,400 mAh · 114 Wh 50 A max	13S4P 48V ebike standard 52 cells · 48.1 V 8,800 mAh · 423 Wh 100 A max	16S4P DIY powerwall 64 cells · 59.2 V 8,800 mAh · 521 Wh 100 A max	4S6P Power tool replacement 24 cells · 14.8 V 13,200 mAh · 195 Wh 150 A max
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SIMILAR CELLS

Same format and chemistry, within ±500 mAh.

CELL	MAH	CONTINUOUS	WH	WEIGHT	WH/KG
BFN 18650-2200 (this cell)	2,200	25 A	8.14	—	—
Panasonic NCR18650D	2,700	5.1 A	10	—	—
Sanyo UR18650ZT	2,650	5.3 A	9.8	46 g	213
LG LGDB118650	2,600	—	9.8	—	—
LG LGDBB11865	2,600	—	9.8	—	—
Sanyo UR18650ZTA	2,620	5.8 A	9.7	48 g	202

HANDLING & SAFETY

- Never charge above 4.2V or discharge below 3V.
- 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/bfn-18650-2200
Manufacturer datasheet	http://en.bfnbattery.com/images/download/18650C-2200.pdf
Independent test (Mooch)	https://www.e-cigarette-forum.com/threads/bench-test-results-h...
Full cell database	cellsaviors.com/cell-database