

Illustrative render generated from published specifications

FST 18650-2200mAh



Live page & updates

FST

- 18650
- NMC

2,200 mAh CAPACITY	8.8 A RATED CONTINUOUS	3.6 V NOMINAL · 2.8 – 4.2 V	7.92 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 databaseHighest A mid-range 18650 cell. Solid for builds that don't need extreme capacity or discharge.	VOLTAGE OPERATING WINDOW 1.4 V usable Cutoff 2.8 VNominal 3.6 VMax 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	Not enough discharge for car audio amplifiers. You need at least 15-20A continuous for most setups.
High-drain vaping	Below the 25A Mooch CDR threshold that high-drain vaping needs. Use a higher-drain cell.
Flashlights	Lower capacity means shorter runtime. Better cells are available for flashlight use.
Power tools	Not enough discharge or capacity for power tool use.

IDENTITY		ELECTRICAL	
Manufacturer	FST	Rated capacity	2,200 mAh
Model	18650-2200mAh	Nominal voltage	3.6 V
Format	18650	Max charge voltage	4.2 V
Chemistry	NMC	Discharge cutoff	2.8 V
Wrap colour	Turquoise	Energy	7.92 Wh
Insulator	Grey	Max continuous discharge	8.8 A (datasheet)
ENERGY & POWER DENSITY		Discharge C-rate	4C
Energy	7.92 Wh	Standard charge current	1,100 mA
Capacity ranking	#87 of 169 18650s	Typical charge time	2 h
		Standard discharge	2200mA

C-RATE CONVERSION · 2,200 MAH

C-RATE	CURRENT	THEORETICAL RUNTIME
0.2C	0.44 A	5h 00m
0.5C	1.1 A	2h 00m
1C	2.2 A	1h 00m
2C	4.4 A	30m
3C	6.6 A	20m

Highlighted row is closest to the rated 8.8 A continuous discharge.

CHARGING

RATE	CURRENT	ESTIMATED TIME TO FULL
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
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3S	10.8 V	12.6 V	9	6.6 Ah	71 Wh
7S	25.2 V	29.4 V	21	6.6 Ah	166 Wh
10S	36 V	42 V	30	6.6 Ah	238 Wh
13S	46.8 V	54.6 V	39	6.6 Ah	309 Wh
14S	50.4 V	58.8 V	42	6.6 Ah	333 Wh

EXAMPLE PACKS

7S2P 24V ebike / small pack 14 cells · 25.2 V 4,400 mAh · 111 Wh 18 A max	13S4P 48V ebike standard 52 cells · 46.8 V 8,800 mAh · 412 Wh 35 A max	16S4P DIY powerwall 64 cells · 57.6 V 8,800 mAh · 507 Wh 35 A max	4S6P Power tool replacement 24 cells · 14.4 V 13,200 mAh · 190 Wh 53 A max
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SIMILAR CELLS

Same format and chemistry, within ±500 mAh.

CELL	MAH	CONTINUOUS	WH	WEIGHT	WH/KG
FST 18650-2200mAh (this cell)	2,200	8.8 A	7.92	—	—
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 2.8V.
- 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/fst-18650-2200mah
Full cell database	cellsaviors.com/cell-database