



FP 18650-2000mAh

FP

18650

LCO



Live page & updates

18.3 × 65 mm

2,000 mAh
CAPACITY

— A
RATED CONTINUOUS

3.6 V
NOMINAL · 2.5 – 4.2 V

7.2 Wh
ENERGY

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.

CAPACITY AMONG 18650S

#221 of 279

Lowest in database

Highest

A mid-range 18650 cell. Solid for builds that don't need extreme capacity or discharge.

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.

IDENTITY

Manufacturer	FP
Model	18650-2000mAh
Format	18650
Chemistry	LCO
Wrap colour	Blue
Insulator	White
Terminal	Flat top
Protection	Unprotected

ENERGY & POWER DENSITY

Energy	7.2 Wh
Volumetric density	421.14 Wh/L
Capacity ranking	#221 of 279 18650s

PHYSICAL

Diameter	18.3 mm
Length	65 mm

ELECTRICAL

Rated capacity	2,000 mAh
Nominal voltage	3.6 V
Max charge voltage	4.2 V
Discharge cutoff	2.5 V
Energy	7.2 Wh
Standard charge current	1,000 mA
Typical charge time	2 h
Standard discharge	500mA

CHARGING

RATE	CURRENT	ESTIMATED TIME TO FULL
0.5C	1,000 mA	~2h 00m
1C	2,000 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	6 Ah	65 Wh
7S	25.2 V	29.4 V	21	6 Ah	151 Wh
10S	36 V	42 V	30	6 Ah	216 Wh
13S	46.8 V	54.6 V	39	6 Ah	281 Wh
14S	50.4 V	58.8 V	42	6 Ah	302 Wh

EXAMPLE PACKS

7S2P 24V ebike / small pack 14 cells · 25.2 V 4,000 mAh · 101 Wh	13S4P 48V ebike standard 52 cells · 46.8 V 8,000 mAh · 374 Wh	16S4P DIY powerwall 64 cells · 57.6 V 8,000 mAh · 461 Wh	4S6P Power tool replacement 24 cells · 14.4 V 12,000 mAh · 173 Wh
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SIMILAR CELLS

Same format and chemistry, within ± 500 mAh.

CELL	MAH	CONTINUOUS	WH	WEIGHT	WH/KG
FP 18650-2000mAh (this cell)	2,000	—	7.2	—	—
Sinc CRN18650-2200MAH	2,200	2 A	7.9	44 g	180
EVE 20P	2,000	30 A	7.2	45 g	160
Sony US18650V	1,600	10 A	5.8	—	—

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 Savors page	cellsaviors.com/cell-database/fp-18650-2000mah
Full cell database	cellsaviors.com/cell-database