



FP 18650-1800mAh

FP

18650

LI-ION



Live page & updates

18.3 × 65 mm
46 g

1,800 mAh
CAPACITY

— A
RATED CONTINUOUS

3.6 V
NOMINAL · 2.5 – 4.2 V

6.48 Wh
ENERGY · 140.87 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.

CAPACITY AMONG 18650S

#243 of 279

Lowest in databaseHighest

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 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.

IDENTITY

Manufacturer	FP
Model	18650-1800mAh
Format	18650
Chemistry	Li-ion
Wrap colour	Green
Insulator	White
Terminal	Button top
Protection	Unprotected

ENERGY & POWER DENSITY

Energy	6.48 Wh
Specific energy	140.87 Wh/kg
Volumetric density	379.03 Wh/L
Capacity ranking	#243 of 279 18650s

PHYSICAL

Diameter	18.3 mm
Length	65 mm
Weight	46 g

ELECTRICAL

Rated capacity	1,800 mAh
Nominal voltage	3.6 V
Max charge voltage	4.2 V
Discharge cutoff	2.5 V
Energy	6.48 Wh
Standard charge current	900 mA
Typical charge time	2 h
Standard discharge	900mA

CHARGING

RATE	CURRENT	ESTIMATED TIME TO FULL
0.5C	900 mA	~2h 00m
1C	1,800 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	5.4 Ah	58 Wh
7S	25.2 V	29.4 V	21	5.4 Ah	136 Wh
10S	36 V	42 V	30	5.4 Ah	194 Wh
13S	46.8 V	54.6 V	39	5.4 Ah	253 Wh
14S	50.4 V	58.8 V	42	5.4 Ah	272 Wh

EXAMPLE PACKS

7S2P 24V ebike / small pack 14 cells · 25.2 V 3,600 mAh · 91 Wh · ≈0.64 kg cells	13S4P 48V ebike standard 52 cells · 46.8 V 7,200 mAh · 337 Wh · ≈2.39 kg cells	16S4P DIY powerwall 64 cells · 57.6 V 7,200 mAh · 415 Wh · ≈2.94 kg cells	4S6P Power tool replacement 24 cells · 14.4 V 10,800 mAh · 156 Wh · ≈1.1 kg cells
---	---	--	--

SIMILAR CELLS

Same format and chemistry, within ±500 mAh.

CELL	MAH	CONTINUOUS	WH	WEIGHT	WH/KG
FP 18650-1800mAh (this cell)	1,800	—	6.48	46 g	141
Nitecore NL1821	2,100	38 A	7.6	45.3 g	167

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-18650-1800mah
Full cell database	cellsaviors.com/cell-database