

Illustrative render generated from published specifications

17.97 × 34.76 mm
22.1 g

AWT 18350

AWT

- 18350
- LMO
- MOOCH-TESTED · 10 A



Live page & updates

850 mAh CAPACITY	10 A MOOCH CONTINUOUS	3.6 v NOMINAL · 2.5 – 4.2 V	3.06 Wh ENERGY · 138.46 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 18350S #7 of 10 Lowest in databaseHighest Higher discharge than 90% of 18350 cells in our database. Great for high-drain builds.	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.
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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	Too low capacity for practical powerwall use. You'd need too many cells.
Ebike packs	Not enough discharge for ebike use. Voltage sag would be a problem under load.
Car audio	Might work for smaller setups. Check your amp's peak current draw.
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

Manufacturer	AWT
Model	18350
Format	18350
Chemistry	LMO
Wrap colour	 Red
Terminal	Flat top
Protection	Unprotected

ENERGY & POWER DENSITY

Energy	3.06 Wh
Specific energy	138.46 Wh/kg
Volumetric density	347.1 Wh/L
Power density (mass)	1,629 W/kg
Power density (volume)	4,084 W/L
Capacity ranking	#7 of 10 18350s

PHYSICAL

Diameter	17.97 mm
Length	34.76 mm
Weight	22.1 g

ELECTRICAL

Rated capacity	850 mAh
Nominal voltage	3.6 V
Max charge voltage	4.2 V
Discharge cutoff	2.5 V
Energy	3.06 Wh
Internal resistance	48.3 mΩ
Max continuous discharge	10 A (mooch)
Discharge C-rate	11.8C

C-RATE CONVERSION · 850 MAH

C-RATE	CURRENT	THEORETICAL RUNTIME
0.2C	0.17 A	5h 00m
0.5C	0.43 A	2h 00m
1C	0.85 A	1h 00m
2C	1.7 A	30m
3C	2.55 A	20m
5C	4.25 A	12m
8C	6.8 A	7m 30s
10C	8.5 A	6m

Highlighted row is closest to the rated 10 A continuous discharge.

CHARGING

RATE	CURRENT	ESTIMATED TIME TO FULL
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0.5C	425 mA	~2h 00m
1C	850 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	2.6 Ah	28 Wh
7S	25.2 V	29.4 V	21	2.6 Ah	64 Wh
10S	36 V	42 V	30	2.6 Ah	92 Wh
13S	46.8 V	54.6 V	39	2.6 Ah	119 Wh
14S	50.4 V	58.8 V	42	2.6 Ah	129 Wh

EXAMPLE PACKS

7S2P 24V ebike / small pack 14 cells · 25.2 V 1,700 mAh · 43 Wh 20 A max · ≈0.31 kg cells	13S4P 48V ebike standard 52 cells · 46.8 V 3,400 mAh · 159 Wh 40 A max · ≈1.15 kg cells	16S4P DIY powerwall 64 cells · 57.6 V 3,400 mAh · 196 Wh 40 A max · ≈1.41 kg cells	4S6P Power tool replacement 24 cells · 14.4 V 5,100 mAh · 73 Wh 60 A max · ≈0.53 kg cells
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SIMILAR CELLS

Same format and chemistry, within ±500 mAh.

CELL	MAH	CONTINUOUS	WH	WEIGHT	WH/KG
AWT 18350 (this cell)	850	10 A	3.06	22.1 g	138
Epoch 18350	1,100	9 A	4	26 g	152
AW 18350	800	12 A	2.9	—	—
Efest IMR18350	700	10 A	2.5	28 g	90
Nitecore 18350 700mAh 7A	700	7 A	2.5	22 g	115

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/awt-18350
Independent test (Mooch)	https://www.e-cigarette-forum.com/threads/bench-test-results-a...
Full cell database	cellsaviors.com/cell-database