

Illustrative render generated from published specifications

18.2 × 65.05 mm
50 g

AWT AWT 35A

3500mAh



Live page & updates

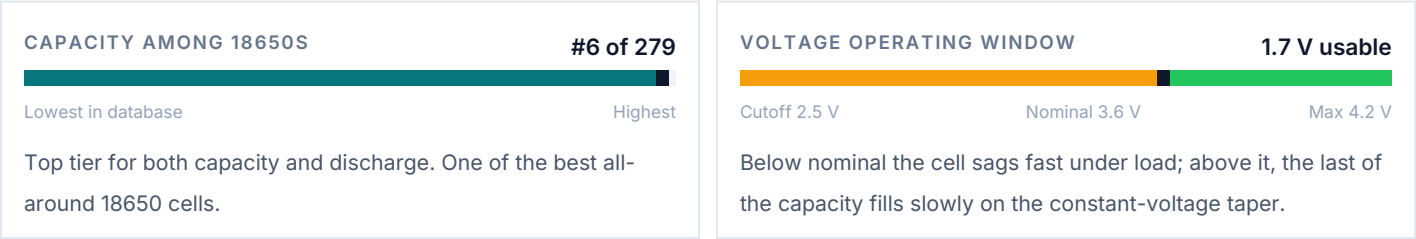
AWT

- 18650
- NMC
- MOOCH-TESTED · 35 A

3,500 mAh CAPACITY	35 A MOOCH CONTINUOUS	3.6 V NOMINAL · 2.5 – 4.2 V	12.6 Wh ENERGY · 252 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. The cell image is an illustrative render generated from published specifications, not a photograph.



APPLICATION SUITABILITY

Rule-of-thumb ratings from this cell's capacity and continuous discharge. Check your own load before committing.

Powerwalls	High capacity means more stored energy per cell. Fewer cells needed for a given kWh target.
Ebike packs	Good balance of capacity for range and discharge for hills. Works well in most ebike packs.
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	High capacity means long runtime. Great for everyday carry and extended use.
Power tools	Sufficient discharge and capacity for most power tool packs.

IDENTITY		PHYSICAL	
Manufacturer	AWT	Diameter	18.2 mm
Model	AWT 35A 3500mAh	Length	65.05 mm
Format	18650	Weight	50 g
Chemistry	NMC	ELECTRICAL	
Terminal	Flat top		
Protection	Unprotected		
OPERATING TEMPERATURE		Rated capacity	3,500 mAh
		Nominal voltage	3.6 V
		Max charge voltage	4.2 V
Charging	0°C to 45°C	Discharge cutoff	2.5 V
Discharging	-10°C to 60°C	Energy	12.6 Wh
ENERGY & POWER DENSITY		Internal resistance	35 mΩ
		Max continuous discharge	35 A (mooch)
		Discharge C-rate	10C
		Standard charge current	1,250 mA
		Typical charge time	2.8 h
		Standard discharge	680mA
		Cycle life	500 cycles
Energy	12.6 Wh		
Specific energy	252 Wh/kg		
Volumetric density	744.54 Wh/L		
Power density (mass)	2,520 W/kg		
Power density (volume)	7,445 W/L		
Capacity ranking	#6 of 279 18650s		

C-RATE CONVERSION · 3,500 MAH

C-RATE	CURRENT	THEORETICAL RUNTIME
0.2C	0.7 A	5h 00m
0.5C	1.75 A	2h 00m
1C	3.5 A	1h 00m
2C	7 A	30m
3C	10.5 A	20m
5C	17.5 A	12m
8C	28 A	7m 30s
10C	35 A	6m

Highlighted row is closest to the rated 35 A continuous discharge.

CHARGING

RATE	CURRENT	ESTIMATED TIME TO FULL
Standard	1,250 mA	~2h 48m
0.5C	1,750 mA	~2h 00m
1C	3,500 mA	~1h 00m

Constant-current phase only. Real charge time runs longer because of the constant-voltage taper at the end.

SERIES PACK CONFIGURATIONS

Voltagess 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	10.5 Ah	113 Wh
7S	25.2 V	29.4 V	21	10.5 Ah	265 Wh
10S	36 V	42 V	30	10.5 Ah	378 Wh
13S	46.8 V	54.6 V	39	10.5 Ah	491 Wh
14S	50.4 V	58.8 V	42	10.5 Ah	529 Wh

EXAMPLE PACKS

7S2P 24V ebike / small pack 14 cells · 25.2 V 7,000 mAh · 176 Wh 70 A max · ≈0.7 kg cells	13S4P 48V ebike standard 52 cells · 46.8 V 14,000 mAh · 655 Wh 140 A max · ≈2.6 kg cells	16S4P DIY powerwall 64 cells · 57.6 V 14,000 mAh · 806 Wh 140 A max · ≈3.2 kg cells	4S6P Power tool replacement 24 cells · 14.4 V 21,000 mAh · 302 Wh 210 A max · ≈1.2 kg cells
--	---	--	--

SIMILAR CELLS

Same format and chemistry, within ± 500 mAh.

CELL	MAH	CONTINUOUS	WH	WEIGHT	WH/KG
AWT AWT 35A 3500mAh (this cell)	3,500	35 A	12.6	50 g	252
Amprius INR18650/40	4,000	12 A	14.4	48 g	300
Vapcell N40	4,000	10 A	14.4	48 g	300
Vapcell F38	3,800	10 A	13.7	48 g	285
Vapcell N36	3,650	8 A	13.1	48 g	274
LG LGEBMJ11865	3,500	10 A	12.7	49 g	260

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/awt-awt-35a-3500mah
Independent test (Mooch)	https://www.e-cigarette-forum.com/threads/bench-test-results-a...
Full cell database	cellsaviors.com/cell-database