

Illustrative render generated from published specifications

18.3 × 35 mm
25 g

Keeppower
UH1835P



Live page & updates

Keeppower · released 2017

18350 NMC

MOOCH-TESTED · 10 A

1,200 mAh

CAPACITY

10 A

MOOCH CONTINUOUS

3.6 V

NOMINAL · 2 – 4.2 V

4.32 Wh

ENERGY · 172.8 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.

CAPACITY AMONG 18350S **#3 of 10**

Lowest in database Highest

Top tier for both capacity and discharge. One of the best all-around 18350 cells.

VOLTAGE OPERATING WINDOW **2.2 V usable**

Cutoff 2 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.

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	May work for lighter-duty tools. Check your tool's current requirements.

IDENTITY

Manufacturer	Kepppower
Model	UH1835P
Format	18350
Chemistry	NMC
Year released	2017
Wrap colour	■ Black
Terminal	Flat top
Protection	Unprotected

OPERATING TEMPERATURE

Charging	0°C to 45°C
Discharging	-20°C to 60°C

ENERGY & POWER DENSITY

Energy	4.32 Wh
Specific energy	172.8 Wh/kg
Volumetric density	469.27 Wh/L
Power density (mass)	1,440 W/kg
Power density (volume)	3,911 W/L
Capacity ranking	#3 of 10 18350s

PHYSICAL

Diameter	18.3 mm
Length	35 mm
Weight	25 g

ELECTRICAL

Rated capacity	1,200 mAh
Nominal voltage	3.6 V
Max charge voltage	4.2 V
Discharge cutoff	2 V
Energy	4.32 Wh
Max continuous discharge	10 A (mooch)
Discharge C-rate	8.3C
Standard charge current	220 mA
Typical charge time	5.5 h

C-RATE CONVERSION · 1,200 MAH

C-RATE	CURRENT	THEORETICAL RUNTIME
0.2C	0.24 A	5h 00m
0.5C	0.6 A	2h 00m
1C	1.2 A	1h 00m
2C	2.4 A	30m
3C	3.6 A	20m
5C	6 A	12m

8C	9.6 A	7m 30s
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Highlighted row is closest to the rated 10 A continuous discharge.

CHARGING

RATE	CURRENT	ESTIMATED TIME TO FULL
Standard	220 mA	~5h 27m
0.5C	600 mA	~2h 00m
1C	1,200 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
3S	10.8 V	12.6 V	9	3.6 Ah	39 Wh
7S	25.2 V	29.4 V	21	3.6 Ah	91 Wh
10S	36 V	42 V	30	3.6 Ah	130 Wh
13S	46.8 V	54.6 V	39	3.6 Ah	168 Wh
14S	50.4 V	58.8 V	42	3.6 Ah	181 Wh

EXAMPLE PACKS

7S2P 24V ebike / small pack 14 cells · 25.2 V 2,400 mAh · 60 Wh 20 A max · ≈0.35 kg cells	13S4P 48V ebike standard 52 cells · 46.8 V 4,800 mAh · 225 Wh 40 A max · ≈1.3 kg cells	16S4P DIY powerwall 64 cells · 57.6 V 4,800 mAh · 276 Wh 40 A max · ≈1.6 kg cells	4S6P Power tool replacement 24 cells · 14.4 V 7,200 mAh · 104 Wh 60 A max · ≈0.6 kg cells
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SIMILAR CELLS

Same format and chemistry, within ± 500 mAh.

CELL	MAH	CONTINUOUS	WH	WEIGHT	WH/KG
Keeppower UH1835P (this cell)	1,200	10 A	4.32	25 g	173
Vapcell F16	1,600	3 A	5.8	26 g	222
Vapcell H16	1,600	5 A	5.8	26 g	222
Vapcell 18350 1100mAh 9A	1,100	9 A	4	26 g	152
Vapcell M11	1,100	9 A	4	26 g	152

HANDLING & SAFETY

- Never charge above 4.2V or discharge below 2V.
- 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/keeppower-uh1835p
Manufacturer datasheet	https://keeppower.com/product/10a-discharge-imr18350-1200mah-l...
Independent test (Mooch)	https://www.e-cigarette-forum.com/threads/bench-test-results-k...
Full cell database	cellsaviors.com/cell-database