

Illustrative render generated from published specifications

18.45 × 65.2 mm

Imren IMREN 15A
3000mAh



Live page & updates

Imren

- 18650
- NMC
- MOOCH-TESTED · 15 A

3,000 mAh CAPACITY	15 A MOOCH CONTINUOUS	3.6 V NOMINAL · 2.5 – 4.2 V	10.8 Wh ENERGY
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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 18650S #37 of 279 Lowest in databaseHighest More capacity than 87% of 18650 cells in our database. One of the higher-capacity options.	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	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	Might work for smaller setups. Check your amp's peak current draw.
High-drain vaping	Usable in regulated mods at moderate wattage. Not recommended for 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	Imren	Diameter	18.45 mm
Model	IMREN 15A 3000mAh	Length	65.2 mm
Format	18650	ELECTRICAL	
Chemistry	NMC		
Wrap colour	 Gold		
Terminal	Flat top		
Protection	Unprotected		
ENERGY & POWER DENSITY		Rated capacity	3,000 mAh
Energy	10.8 Wh	Nominal voltage	3.6 V
Volumetric density	619.57 Wh/L	Max charge voltage	4.2 V
Power density (volume)	3,098 W/L	Discharge cutoff	2.5 V
Capacity ranking	#37 of 279 18650s	Energy	10.8 Wh
		Max continuous discharge	15 A (mooch)
		Discharge C-rate	5C
		Cycle life	500 cycles

C-RATE CONVERSION · 3,000 MAH

C-RATE	CURRENT	THEORETICAL RUNTIME
0.2C	0.6 A	5h 00m
0.5C	1.5 A	2h 00m
1C	3 A	1h 00m
2C	6 A	30m
3C	9 A	20m
5C	15 A	12m

Highlighted row is closest to the rated 15 A continuous discharge.

CHARGING

RATE	CURRENT	ESTIMATED TIME TO FULL
0.5C	1,500 mA	~2h 00m
1C	3,000 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	9 Ah	97 Wh
7S	25.2 V	29.4 V	21	9 Ah	227 Wh
10S	36 V	42 V	30	9 Ah	324 Wh
13S	46.8 V	54.6 V	39	9 Ah	421 Wh
14S	50.4 V	58.8 V	42	9 Ah	454 Wh

EXAMPLE PACKS

7S2P 24V ebike / small pack 14 cells · 25.2 V 6,000 mAh · 151 Wh 30 A max	13S4P 48V ebike standard 52 cells · 46.8 V 12,000 mAh · 562 Wh 60 A max	16S4P DIY powerwall 64 cells · 57.6 V 12,000 mAh · 691 Wh 60 A max	4S6P Power tool replacement 24 cells · 14.4 V 18,000 mAh · 259 Wh 90 A max
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SIMILAR CELLS

Same format and chemistry, within ±500 mAh.

CELL	MAH	CONTINUOUS	WH	WEIGHT	WH/KG
Imren IMREN 15A 3000mAh (this cell)	3,000	15 A	10.8	—	—
LG LGEBMJ11865	3,500	10 A	12.7	49 g	260
LG LGDBMJ11865	3,500	10 A	12.7	49 g	259
AWT AWT 35A 3500mAh	3,500	35 A	12.6	—	—
Epoch PROTECTED	3,500	8 A	12.6	49.1 g	257
EVE INR18650-35V	3,500	10 A	12.6	47 g	268

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/imren-imren-15a-3000mah
Independent test (Mooch)	https://www.e-cigarette-forum.com/threads/bench-test-results-i...
Full cell database	cellsaviors.com/cell-database