

Illustrative render generated from published specifications

21.5 × 70.5 mm
72 g

Tenpower 60XG

Tenpower · released 2026

21700 NCA

MOOCH-TESTED · 40 A



Live page & updates

6,000 mAh CAPACITY	40 A MOOCH CONTINUOUS	3.6 V NOMINAL · 2.5 – 4.2 V	21.6 Wh ENERGY · 300 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 21700S #5 of 72 Lowest in databaseHighest Top tier for both capacity and discharge. One of the best all-around 21700 cells.	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	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	Tenpower	Diameter	21.5 mm
Model	60XG	Length	70.5 mm
Format	21700	Weight	72 g
Chemistry	NCA	ELECTRICAL	
Year released	2026		
Terminal	Flat top		
Protection	Unprotected		
OPERATING TEMPERATURE			
Charging	0°C to 45°C	Rated capacity	6,000 mAh
Discharging	-20°C to 60°C	Nominal voltage	3.6 V
ENERGY & POWER DENSITY		Max charge voltage	4.2 V
		Discharge cutoff	2.5 V
		Energy	21.6 Wh
		Max continuous discharge	40 A (mooch)
		Discharge C-rate	6.7C
Energy	21.6 Wh		
Specific energy	300 Wh/kg		
Volumetric density	843.91 Wh/L		
Power density (mass)	2,000 W/kg		
Power density (volume)	5,626 W/L		
Capacity ranking	#5 of 72 21700s		
C-RATE CONVERSION · 6,000 MAH			
C-RATE	CURRENT	THEORETICAL RUNTIME	
0.2C	1.2 A	5h 00m	
0.5C	3 A	2h 00m	
1C	6 A	1h 00m	
2C	12 A	30m	
3C	18 A	20m	
5C	30 A	12m	

Highlighted row is closest to the rated 40 A continuous discharge.

CHARGING

RATE	CURRENT	ESTIMATED TIME TO FULL
0.5C	3,000 mA	~2h 00m
1C	6,000 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	18 Ah	194 Wh
7S	25.2 V	29.4 V	21	18 Ah	454 Wh
10S	36 V	42 V	30	18 Ah	648 Wh
13S	46.8 V	54.6 V	39	18 Ah	842 Wh
14S	50.4 V	58.8 V	42	18 Ah	907 Wh

EXAMPLE PACKS

7S2P 24V ebike / small pack 14 cells · 25.2 V 12,000 mAh · 302 Wh 80 A max · ≈1.01 kg cells	13S4P 48V ebike standard 52 cells · 46.8 V 24,000 mAh · 1,123 Wh 160 A max · ≈3.74 kg cells	16S4P DIY powerwall 64 cells · 57.6 V 24,000 mAh · 1,382 Wh 160 A max · ≈4.61 kg cells	4S6P Power tool replacement 24 cells · 14.4 V 36,000 mAh · 518 Wh 240 A max · ≈1.73 kg cells
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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/tenpower-60xg

Manufacturer datasheet	https://www.lithiumlifepo4-battery.com/photo/lithiumlifepo4-ba...
Independent test (Mooch)	https://www.e-cigarette-forum.com/threads/bench-test-results-t...
Full cell database	cellsaviors.com/cell-database