

Illustrative render generated from published specifications

Linkdata 55P

Linkdata

21700 NMC

MOOCH-TESTED · 40 A

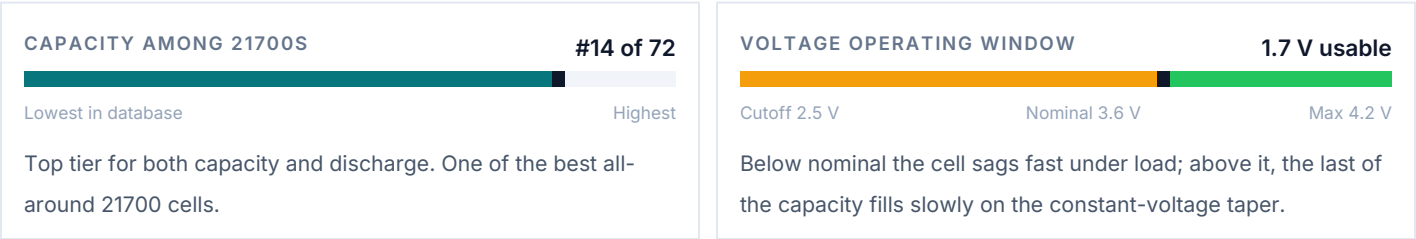


Live page & updates

5,500 mAh CAPACITY	40 A MOOCH CONTINUOUS	3.6 V NOMINAL · 2.5 – 4.2 V	19.8 Wh ENERGY
--	---	---	--------------------------------------

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		ELECTRICAL	
Manufacturer	Linkdata	Rated capacity	5,500 mAh
Model	55P	Nominal voltage	3.6 V
Format	21700	Max charge voltage	4.2 V
Chemistry	NMC	Discharge cutoff	2.5 V
Protection	Unprotected	Energy	19.8 Wh
ENERGY & POWER DENSITY		Max continuous discharge	40 A (mooch)
Energy	19.8 Wh	Discharge C-rate	7.3C
Capacity ranking	#14 of 72 21700s		

C-RATE CONVERSION · 5,500 MAH

C-RATE	CURRENT	THEORETICAL RUNTIME
0.2C	1.1 A	5h 00m
0.5C	2.75 A	2h 00m
1C	5.5 A	1h 00m
2C	11 A	30m
3C	16.5 A	20m
5C	27.5 A	12m

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

CHARGING

RATE	CURRENT	ESTIMATED TIME TO FULL
0.5C	2,750 mA	~2h 00m
1C	5,500 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	16.5 Ah	178 Wh

7S	25.2 V	29.4 V	21	16.5 Ah	416 Wh
10S	36 V	42 V	30	16.5 Ah	594 Wh
13S	46.8 V	54.6 V	39	16.5 Ah	772 Wh
14S	50.4 V	58.8 V	42	16.5 Ah	832 Wh

EXAMPLE PACKS

7S2P 24V ebike / small pack 14 cells · 25.2 V 11,000 mAh · 277 Wh 80 A max	13S4P 48V ebike standard 52 cells · 46.8 V 22,000 mAh · 1,030 Wh 160 A max	16S4P DIY powerwall 64 cells · 57.6 V 22,000 mAh · 1,267 Wh 160 A max	4S6P Power tool replacement 24 cells · 14.4 V 33,000 mAh · 475 Wh 240 A max
---	---	--	--

SIMILAR CELLS

Same format and chemistry, within ± 500 mAh.

CELL	MAH	CONTINUOUS	WH	WEIGHT	WH/KG
Linkdata 55P (this cell)	5,500	40 A	19.8	—	—
Linkdata 60P	6,000	60 A	21.6	68 g	318
Vapcell F60	6,000	12 A	21.6	74 g	292
Reliance RH60	5,850	20 A	21.1	71 g	297
Reliance RS60	5,850	50 A	21.1	71.5 g	295
Lishen LR2170SK	5,800	16 A	20.9	—	—

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/linkdata-55p

Independent test (Mooch)

<https://www.e-cigarette-forum.com/threads/bench-test-results-l...>

Full cell database

cellsaviors.com/cell-database