

Illustrative render generated from published specifications

BAK C18650CC

BAK

18650

NMC



Live page & updates

2,600 mAh CAPACITY	2 A RATED CONTINUOUS	3.7 V NOMINAL · 3 – 4.2 V	9.62 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

#39 of 169

Lowest in database

Highest

More capacity than 78% of 18650 cells in our database, but lower discharge than average.

VOLTAGE OPERATING WINDOW

1.2 V usable

Cutoff 3 V

Nominal 3.7 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	High capacity means more stored energy per cell. Fewer cells needed for a given kWh target.
● Ebike packs	Not enough discharge for ebike use. Voltage sag would be a problem under load.
● Car audio	Not enough discharge for car audio amplifiers. You need at least 15-20A continuous for most setups.
● High-drain vaping	Below the 25A Mooch CDR threshold that high-drain vaping needs. Use a higher-drain cell.
● Flashlights	Decent runtime. Works well for most flashlights.
● Power tools	Not enough discharge or capacity for power tool use.

IDENTITY		ELECTRICAL	
Manufacturer	BAK	Rated capacity	2,600 mAh
Model	C18650CC	Nominal voltage	3.7 V
Format	18650	Max charge voltage	4.2 V
Chemistry	NMC	Discharge cutoff	3 V
Wrap colour	Gray	Energy	9.62 Wh
Insulator	White	Internal resistance	70 mΩ
ENERGY & POWER DENSITY		Max continuous discharge	2 A (datasheet)
		Discharge C-rate	0.8C
Energy	9.62 Wh		
Capacity ranking	#39 of 169 18650s		

C-RATE CONVERSION · 2,600 MAH

C-RATE	CURRENT	THEORETICAL RUNTIME
0.2C	0.52 A	5h 00m
0.5C	1.3 A	2h 00m

Highlighted row is closest to the rated 2 A continuous discharge.

CHARGING

RATE	CURRENT	ESTIMATED TIME TO FULL
0.5C	1,300 mA	~2h 00m
1C	2,600 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	11.1 V	12.6 V	9	7.8 Ah	87 Wh
7S	25.9 V	29.4 V	21	7.8 Ah	202 Wh
10S	37 V	42 V	30	7.8 Ah	289 Wh
13S	48.1 V	54.6 V	39	7.8 Ah	375 Wh

14S 51.8 V 58.8 V 42 7.8 Ah 404 Wh

EXAMPLE PACKS

7S2P 24V ebike / small pack 14 cells · 25.9 V 5,200 mAh · 135 Wh 4 A max	13S4P 48V ebike standard 52 cells · 48.1 V 10,400 mAh · 500 Wh 8 A max	16S4P DIY powerwall 64 cells · 59.2 V 10,400 mAh · 616 Wh 8 A max	4S6P Power tool replacement 24 cells · 14.8 V 15,600 mAh · 231 Wh 12 A max
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SIMILAR CELLS

Same format and chemistry, within ± 500 mAh.

CELL	MAH	CONTINUOUS	WH	WEIGHT	WH/KG
BAK C18650CC (this cell)	2,600	2 A	9.62	—	—
LG LGABD11865	3,000	—	11.3	—	—
LG LGDBD11865	3,000	5.8 A	11.3	48.5 g	232
Panasonic NCR18650BD	3,100	10 A	11.2	49.5 g	225
Samsung ICR18650-30B	2,950	5.9 A	11.2	48 g	232
Samsung ICR18650-30A	3,000	6 A	11.1	48 g	231

HANDLING & SAFETY

- Never charge above 4.2V or discharge below 3V.
- 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/bak-c18650cc
Full cell database	cellsaviors.com/cell-database