

Kern 125 cabinet and Kern Block container

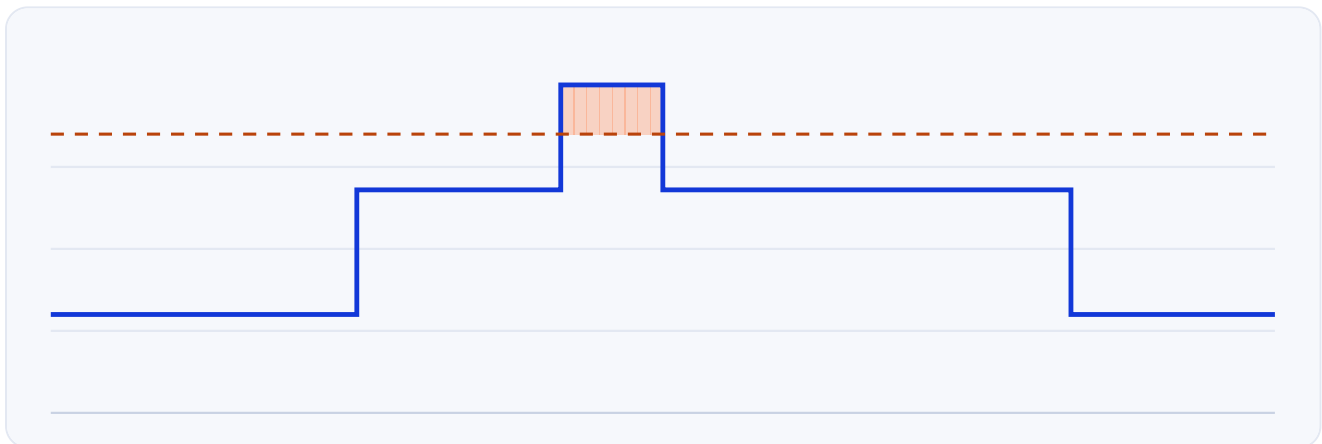
Modular LFP battery storage behind the meter, 125 kWh to 5 MWh, controlled by the Stroomkern EMS.

Parameter	Kern 125 cabinet	Kern Block container
Usable energy	125 kWh	2,500 kWh
Continuous power	62.5 kW	1,250 kW
Power / energy ratio	0.5C	0.5C
Scaling	1–8 cabinets (1,000 kWh)	1–2 containers (5,000 kWh)
Cell chemistry	LFP	LFP
Cooling	Liquid-cooled	Liquid-cooled + HVAC
Grid connection	400 V AC, 3-phase	MV via transformer
Footprint (indicative)	1.1 x 1.4 m outdoor	20 ft container
Fire detection	Gas + smoke per cabinet	Gas, smoke, heat; venting
Control	EMS, 1 s meter reading	EMS, 1 s meter reading
Monitoring	Portal + monthly report	Portal + monthly report

All values are demonstration values for a fictional product range. A real proposal includes the manufacturer datasheet of the selected system.

How we size a system

- 1 Power (kW) follows the highest quarter-hour above your limit (95% of contracted capacity).
- 2 Energy (kWh) follows the area above that limit per day, divided by 90% usable depth of discharge.
- 3 A 10% sizing margin is added; the result is rounded up to whole cabinets or containers.
- 4 Recharge check: there must be enough headroom below the limit to refill the battery (92% round-trip).
- 5 A real proposal uses one year of your 15-minute meter data and a site survey.



Illustrative day: demand (blue), contracted limit (dashed orange), energy to deliver from storage (orange area).

Not advice, not a quote, not a certified calculation. No savings are guaranteed. Safety measures, permits and grid operator requirements are assessed per site.

Stroomkern is a fictional company. Contact details are fictional in this concept.