



BAS-N5000C

BAS-N5000C, High-capacity DC-coupled energy storage container

Code: EBN390.

> Scalability up to 4 units in parallel

Description

Container-format energy storage solution for **DC storage**, designed to deliver top performance in hybrid projects with renewable generation, and to operate independently to support grid and microgrid regulation. Specially designed for outdoor installation with an IP55 protection rating. A robust, efficient, and scalable system that allows both power and storage capacity expansion.

The solution includes:

- Battery modules based on lithium iron phosphate (LiFePO₄) cells, each with a capacity of 314 per cell.
- Battery Management System (BMS) for monitoring cell voltage, humidity, and temperature.
- Liquid cooling system that optimises cell temperature and allows higher energy density.
- Integrated protections on the internal DC bus.
- Fire detection and suppression system using gas diffusion.
- Electrical cabinet for auxiliary AC equipment power supply.
- Compatible with standalone PCS units with high input voltage.

Application

Stabilisation and regulation of the DC bus in high-capacity DC-coupled fast-charging centres.

Optimisation of high-power industrial self-consumption.

Hybridisation with photovoltaic plants for grid-balancing services.

Grid support services: voltage and frequency stabilisation.

Participation in flexibility markets and capacity assurance in stand-alone configurations within distribution and transmission networks.

Sectors of use:

- High-capacity EV charging hubs and centres.
- Wind farms and photovoltaic plants.
- Large-scale industrial facilities.
- Tertiary sector.
- Data centres.
- High-consumption livestock farms.



BAS-N5000C

Liquid-cooling Energy Storage Cabinet

Code: EBN390.

Specifications

Battery specifications – Charge/discharge ratio

0,5 C

Battery specification

| | |
|-----------------------|--------------------------|
| Performance-guarantee | 10 years / 10.000 cycles |
| Type | LFP (314 Ah) |

Mechanical characteristics

| | |
|----------------------------------|-------------------------|
| Size (mm) width x height x depth | 6058 x 2896 x 2438 (mm) |
| Envelope | Metallic |
| Thermal management | Liquid cooling |
| Noise | ≤ 75dB @1m |
| Weight (kg) | 45000 |

Environmental characteristics

| | |
|--|---------------|
| Protection class | IP55 |
| Relative humidity (without condensation) | 0 ... 95 % |
| Working temperature | -40 ... +55°C |

Electrical characteristics

| | |
|----------------|------------|
| Efficiency | 94 % |
| Voltage | 1331.2 Vdc |
| Nominal energy | 5,01 MWh |

Standards

| | |
|---------------------------------------|--|
| Certifications | CE |
| Electrical safety, Maximum height (m) | 2000 |
| Standards | IEC62619, UL9540A, UL9540, UN3536, UL9540A, IEC62619, UN38.3 |

Performance & Safety

| | |
|--------|---|
| Safety | Fire Suppression: Gas + Water Pipe + Blast panels |
|--------|---|

Features / performance

| | |
|--------------------------------|---------------|
| Parallel assembly/installation | Up to 4 units |
|--------------------------------|---------------|

BAS-NCont

Energy storage solution.



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Liquid-cooling Energy Storage Cabinet

Code: EBN390.

| CODE | TYPE |
|---------|------------|
| EBN3A0. | BAS-N4200C |
| EBN390. | BAS-N5000C |
| EBN3B0. | BAS-N6250C |