



BAS-N233AC

BAS-N233AC, Energy storage cabinet with AC coupling

Code: EBN144.

> Scalability up to 5 units in parallel.

Description

A compact, all-in-one energy storage system for connection to AC grids, specially designed for outdoor installation, with IP55 protection rating. Robust, efficient, modular, and parallelisable device that allows power capacity to be expanded by connecting multiple units in parallel, adapting storage capacity to the energy demand of each installation.

The solution includes:

- Battery modules based on lithium iron phosphate (LiFePO_4) cells, each with a capacity of 2800Ah.
- 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.
- Bidirectional power conversion unit for charging and discharging, compatible with three-phase network connection and compliant with grid codes.
- AC overcurrent and overvoltage protections.
- Integrated battery energy manager enabling external control from a higher-level Energy Management System (EMS).
- Fire detection and suppression system using gas diffusion.

Application

- Reduced demand peaks and optimised energy consumption.
- Improved self-consumption through storage of surplus energy.
- Emergency power supply in the event of grid failures.
- Reduction of energy costs.
- Provision of grid services: voltage and frequency stabilisation.
- Participation in flexibility markets and capacity services (power guarantee).

Sectors of use:

- Electric vehicle charging infrastructure.
- Industrial facilities.
- Tertiary sector.
- Agricultural operations.
- Energy communities.



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Outdoor energy storage solution

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Specifications

AC power supply

Power factor	-1 ... 1
Frequency	50/60 Hz
Nominal voltage	230 /400Vac, 3L+N+PE

Battery specification

Capacity	280 Ah
Performance-guarantee	10 years / 8.000 cycles
Type	LFP (280 Ah)
Voltage	832 Vcc

Mechanical characteristics

Size (mm) width x height x depth	1000 x 2400 x 1350 (mm)
Envelope	Metallic
Thermal management	Liquid cooling
Noise	≤ 75dB @1m
Weight (kg)	2900

Environmental characteristics

Protection class	IP55
Relative humidity (without condensation)	0 ... 95 %
Working temperature	-30 ... +55°C

Electrical characteristics

Efficiency	≥ 88% Global
Nominal energy	232,9 kWh

Standards

Certifications	CE
Electrical safety, Maximum height (m)	2000
Standards	IEC62619, UL9540A, UL9540, UN3536, IEC62477-1, UK: G99/19/10, Italy: CEIO-21, Low Voltage Directive 2014/35/EU, IEC61000-6-2, IEC61000-6-4, UL9540A, IEC62619, UN38.3

Communication Network

Protocol	ModBus TCP/RTU, CAN
Technology / Interface	Ethernet/RS485/CANBus

Performance & Safety



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Safety	Fire Suppression: Aerosol + Floodable Cabinet
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Features / performance

Parallel assembly/installation	Up to 5 units
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BAS-NAC
Energy storage solution.

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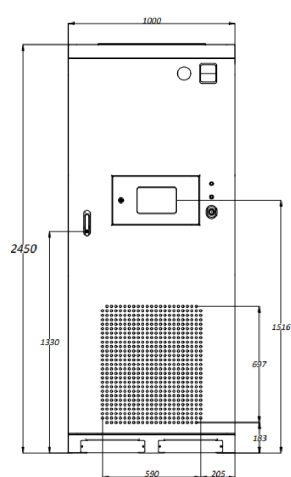


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Dimensions



Connections

