



Bredenoord

OUR ENERGY. YOUR POWER.



Battery Boxes

The right battery for every project

Batteries play an important role in the energy transition towards a more sustainable energy supply. A battery system, such as Bredenoord's Battery Box, stores energy. Deploying energy storage opens up a world of new possibilities.

SUSTAINABLE AND FLEXIBLE

The main advantages of battery systems lie in reduction (CO₂, nitrogen oxides, particulates, noise) and temporary absorption peak loads (peak shaving). In locations where silent and/or clean operations are required, but grid power is insufficient, energy storage is often the decisive solution that makes a project possible. By storing energy in (large) batteries, it can be used at any desired moment and location.

MANY POSSIBLE COMBINATIONS

The Battery Box can be used as a stand-alone energy source (island mode) or connected to one or more energy sources (hybrid or peak shave mode).

These include Stage V generators, biogas generators, grid connections, and solar panels. This makes it possible to tailor the energy supply precisely to your power needs. This approach is more sustainable than designing a traditional installation based solely on peak demand—while being just as reliable!

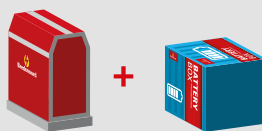
THE RIGHT BATTERY FOR EVERY PROJECT

Bredenoord offers batteries in various capacities from 15 to 600kW. Our experts will gladly advise you on the best model and configuration to match your energy needs.

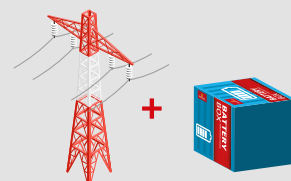
ISLAND MODE



HYBRID MODE



PEAKSHAVE MODE



NEW IN THE BREDENOORD FLEET: BATTERY BOX 30

The Battery Box 30, BB30 for short, is one of Bredenoord's smallest and at the same time most modern battery systems. Despite its compact dimensions - the footprint is the size of a euro pallet - the system has a power output of 30 kW and a battery capacity of 69 kWh. Another feature that makes the BB30 both unique and versatile is its ability to supply higher peak currents thanks to an inverter with increased capacity.



CHARGING WITH 230 V AND SOLAR PANELS

The BB30 offers multiple charging options. It can be charged via a 3-phase grid connection, a generator, solar panels, or even with a single-phase 230V power supply. This last option is unique and a true advantage over all other systems: charging with either 1 or 3 phases while always delivering 3-phase output.

PGS 37-1 GUIDELINE

Naturally, all our battery systems always comply with the applicable safety requirements and provisions, ensuring they can be transported, charged, and used safely at all times. Additionally, the BB30 is one of the first systems to meet the new PGS 37-1 guideline for the safe storage of electricity in energy storage systems.

TECHNICAL DATA BATTERY BOX 30

SERVICE OBJECT DATA

Dimensions with frame	1200 x 800 x 2335 mm (L x W x H)
Weight	1.175 kg

TECHNICAL SPECIFICATIONS

Nominal (inverter)rate power	30 kW
Nominal (accu)capacity	69 kWh
Nominal usable energy	48 kWh*
Nominal voltage range	360 – 440 V
Frequency	50 of 60 Hz
Nominal rated current (input / output)	28 A / 63 A
Nominal rated power (input / output)	18 kW / 30 kW
Minimum charging power	3 kW

SYSTEM

Mains circuit (input)	CEE 63 A
Load circuit (output)	CEE 63 A
MPPT connection PV Mc4	Mc4

OTHERS

Certificates & Approvals	Built in accordance with PGS37-1 CE Declaration of Conformity Cell UN 38.3 IEC 62619
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* At optimum ambient conditions