



**xelectrix**  
POWER

# POWER BOX DISCOVER NEW ENERGY

xelectrix energy storage solutions



**ENERGY  
OPTIMIZATION  
STORAGE  
CONTROL**



xelectrix

# POWER BOX UNLIMITED

Innovative. Stand alone. Multi-functional high voltage  
ESS (Energy Storage Systems).

**Global energy requirements, consumption and prices are increasing. The continued supply of electricity to meet global requirements can no longer be guaranteed.**

After years of intensive research in battery and power control, the xelectrix Power Box range is here! "Engineered in Austria", the product is a multi-functional, modular system featuring our Parallel Platform Technology and our unique inverter concept.

DISCOVER NEW ENERGY is what the company stands for.

## COMPANY

Committed to environmental protection | Desire to lead the energy transition | Dynamic and motivated

## INNOVATION

Best team in the industry | Solution driven | Always one step ahead | Technology for the future

## PRODUCT

Industry leading features | Design and Know-How under one roof | Plug & Play | Built to be tough and reliable | Engineered in Austria

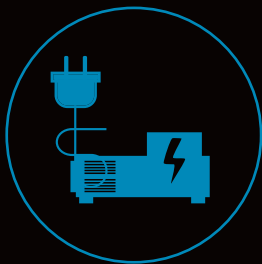
## CUSTOMER ORIENTATION

Best factory support | Professional and dedicated distribution partners | Helping you and the environment

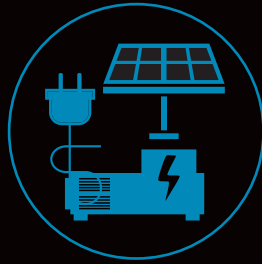


## POWER BOX APPLICATIONS

### XPB OFF-GRID



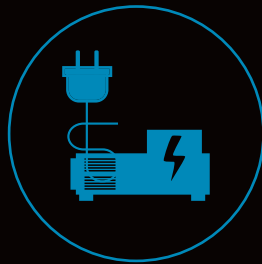
- ◆ Hybridization of Generators



- ◆ Construction Sites
- ◆ Mining



- ◆ Telecommunication



- ◆ Disaster Management
- ◆ Governmental Agencies

### XPB ON-GRID



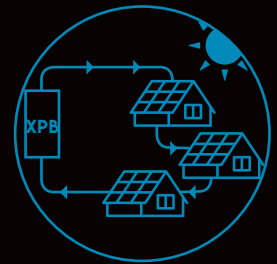
- ◆ Grid Operators
- ◆ Energy Trading



- ◆ Business & Industry
- ◆ Public Entities



- ◆ Charging Infrastructure



- ◆ LEC - Local Energy Community
- ◆ Centralized Storage

## POWER BOX

# WHAT THE POWER BOX CAN DO FOR YOU

PEAK SHAVING

LOAD SHIFTING

RE OPTIMIZATION

PEAK POWER BOOST

BACKUP POWER

GENSET CONTROL

BLACK START

GRID STABILIZATION

ENERGY TRADING

MICRO GRID

LEC

CHARGE SHIFTING

GRID CONNECTION

REACTIVE POWER COMPENSATION

UNBALANCED LOAD ACCEPTANCE

UPS



## POWER BOX ALL IN ONE SYSTEM

We have combined the best battery technology with innovative internal performance measuring components to form a complete system that allows larger storage capacities behind only one inverter.

### FEATURES

#### SAFE

By using our in-house designed, intrinsically safe LiFePO<sub>4</sub> battery cells with an integrated thermally triggered extinguishing system, we set a completely new standard when it comes to safety.

#### PARALLEL PLATFORM TECHNOLOGY

Power source energy combined and added with the power from the on-board XPB inverter.

#### MODULAR & EXPANDABLE

Single units with a wide range of storage options, with the possibility of connecting certain models together to expand both power and storage capacities.

#### UNIQUE BI-DIRECTIONAL HYBRID INVERTER

In-house designed interface technology allowing the Power Box to charge and discharge using only one inverter.

#### UNIQUE ACTIVE BATTERY MANAGEMENT SYSTEM (aBMS)

Monitoring and controls to actively ensure maximum battery life spans and optimum efficiencies are achieved.

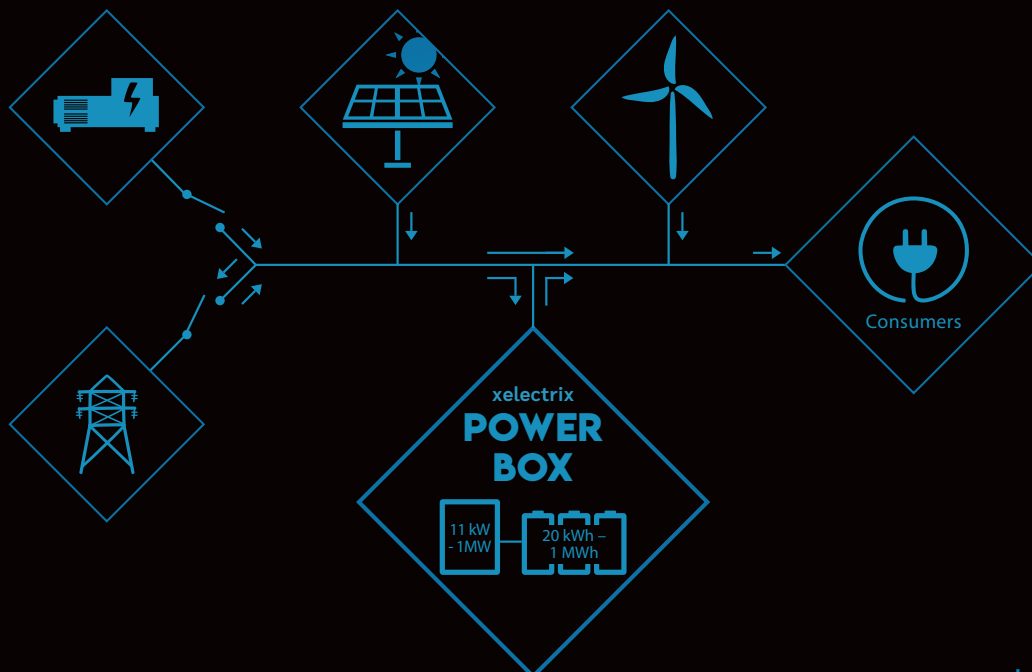
### BENEFITS

- ◆ Substantial reduction of CO<sub>2</sub> emissions
- ◆ Massive cost savings when used in combination with generators: Fuel reduction of up to 40% and maintenance and operating costs of up to 50%
- ◆ Smaller diesel generators can be used
- ◆ High efficiency grade
- ◆ High ROI with short payback time
- ◆ High performance with durability
- ◆ Multi-functional and modular expansion
- ◆ Highest safety standards with International Certification



## POWER BOX PLUG & PLAY

Easy installation due to our Parallel Platform Technology (grid-parallel) so that with or without PV / wind energy supply, it is simple to integrate the Power Box into existing electrical infrastructures.



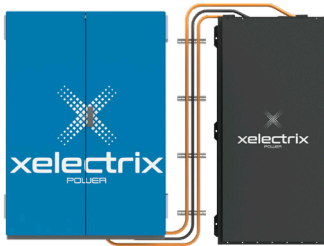
## WALL RANGE

(on-board transformer and switch function, indoor only)

### XPB-W11 AND XPB-W35

11 kW (20-40 kWh)

35 kW (40 kWh)



## BASIC RANGE

(no on-board transformer and switch function, indoor only)

### XPB-B35 AND XPB-B80

35 kW (40-140 kWh)

80 kW (80-140 kWh)



\* on-board transformer and switch function available as options for B35 Range and B80-80 and 100 models

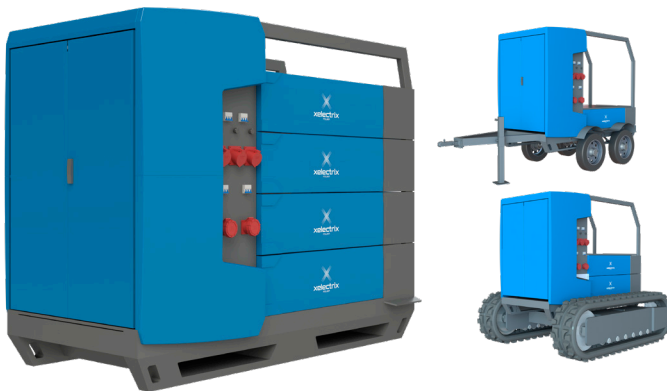
## PRO RANGE

(on-board transformer and switch function, in- and outdoor)

### XPB-P11 AND XPB-P35

11 kW (20-120 kWh)

35 kW (40-120 kWh)



ENGINEERED  
IN AUSTRIA

## UNLIMITED RANGE

(on-board transformer and switch function, in- and outdoor)



### MX750

750 kW Inverter + Transformer + Switch Function Box to be used with XPB-MB40 Battery Container (740 to 1000 kWh)

### MX1000

1000 kW Inverter + Transformer + Switch Function Box to be used with XPB-MB40 Battery Container (1000 kWh)



### M10

35 kW (100-240 kWh)  
80 kW (100-240 kWh)  
150 kW (140-240 kWh)



### M20

150 kW (140-480 kWh)  
250 kW (240-480 kWh)  
500 kW (480 kWh)



### M40

250 kW (240-1000 kWh)  
500 kW (480-1000 kWh)



## POWER BOX

# NOT ALL ESS'S ARE CREATED EQUAL

Offering market unique designs and technologies that enable our partners to offer value adding solutions that no one else can.

- ◆ 3-phase AC coupled storage system
- ◆ Grid parallel (on-grid) or as independent island system (off-grid)
- ◆ Storage capacity from 20 kWh up to 2,4 MWh (per inverter)
- ◆ Inverter power scalable from 11 kW to 1 MW (per unit)
- ◆ Multiple unit expansion - up to 240 MW / 576 MWh possible
- ◆ High voltage LiFePO<sub>4</sub> battery pack with screwed cells (650 V nominal voltage)
- ◆ Active Battery Management System (aBMS)
- ◆ Up to 8000 charging cycles depending on the application
- ◆ Battery safety: self-securing cells, integrated extinguishing system in each battery pack (non-flammable)
- ◆ Backup Power / formation of an emergency power system during blackouts
- ◆ Continued operation and control of PV systems during blackouts
- ◆ Hybridization of diesel generators (increasing efficiency, CO<sub>2</sub> reduction)
- ◆ Island system or emergency power system
- ◆ 100 % unbalanced load acceptance
- ◆ Parallel Platform Technology / power addition with other energy sources
- ◆ Plug & Play / connection preparation for uncomplicated installation
- ◆ Reactive power Compensation
- ◆ Optional: Setup of uninterruptible power supplies (UPS)
- ◆ Performance guarantee per battery pack: at least 70 % of the usable energy for 10 years or a maximum throughput of 55 MWh
- ◆ Engineered in Austria



Subject to technical modifications. Layout and printing errors excepted.

V10.06/2020



xelectrix Power GmbH  
Pem-Str. 2, 4310 Mauthausen  
Austria  
Tel. +43 7238 31515  
info@xelectrix-power.com  
[www.xelectrix-power.com](http://www.xelectrix-power.com)