POWER BOX
DISCOVER NEW ENERGY
xelectrix energy storage solutions

ENERGY OPTIMIZATION
STORAGE CONTROL

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.
**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

### 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**
FEATURES

SAFE
By using our in-house designed, intrinsically safe LiFePO₄ 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 CO₂ 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

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.

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)  

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

**M10**  
35 kW (40 -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)  

**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)

xelectrix-power.com
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 LiFePO₄ 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, CO₂ 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