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PowerBase XL

Cabinet only

Fully integrated, pre-wired and factory configured system that reduces the installation time significantly.

The BESS that pays for itself by earning from electricity markets and saving cost through peak shaving and power boost.

High-capacity BESS for energy-demanding sites

The PowerBase XL is a high-capacity energy storage system. Designed for quick deployment on a steel skid with container-format footprint. It is easy to transport to new locations if needed.

Built for future-proof performance

Designed and manufactured in Europe. Combining robust engineering with high-quality components to deliver modular, scalable and reliable energy storage for critical applications and demanding environments.

Secure, connected, and compliant

Our 48V systems are built for always-on operation. Encrypted communications, secure remote access, and full GDPR compliance, enabling uninterrupted connectivity, real-time insight, and maximum ROI through value stacking.

Resilient by design, reliable in use

Pixii BESS feature built-in redundancy, active monitoring, and automated recovery protocols. This ensures secure operation even under failure or cyber threat, ideal for mission-critical energy storage needs.

Pre-wired, pre-configured

The base is designed for easy deployment. Cabinets can be shipped with batteries installed and come pre-wired, with a separate AC distribution cabinet to simplify installation and reduce on-site work.

Comprehensive Service Level Agreement (SLA) and support

Proactive maintenance, fast response, and certified installers help maximize uptime and extend lifespan. SLAs secure optimal performance and ROI throughout the system lifetime.

Scalable high-capacity PowerBase

Supports up to 540 kW and 1.8 MWh. Designed for scalable energy storage with high-density battery modules. Ideal for long-duration use and large-scale site configurations.

Highlights

- Robust IP55 industrial cabinet
- Pre-wired and pre-configured
- Single-lift installation
- Galvanic isolation (AC-DC)
- European quality & GDPR compliance
- Safe ~48V installation and operation

Key functions

- PV self-consumption
- Peak shaving
- Balance market participation
- Electricity market participation

9 x XL cabinets with up to 60kW power and 200kWh total capacity per cabinet

PowerBase XL Cabinet only

AC specifications

Grid connection type	TT / TN
Phase config. (grid) [2]	3ph
AC voltage (-10/+15%)	400V
Nominal AC voltage range	207 - 260V
Nominal frequency (grid)	50Hz
Max. AC power (±2%) [1]	540kWp
Off-grid operation support	No
Generator backup support	No

1. The stated power and energy capacities are baseline, or nominal, values. Actual performance can vary and may be constrained by several factors, including the state of charge (SoC), state of health (SoH) of the system, as well as thermal conditions.
2. A 3-phase connection requires at least three PixiiBoxes, one for each phase.

DC specifications

Installed capacity (max)	0kWh
Max. system capacity	2025.7kWh
Nominal DC voltage	~48V

Communication and connectivity

Wired interfaces	Ethernet LAN, RS 485 (Modbus), Digital IO
Wireless interfaces	Wi-Fi hotspot (local AP), 4G (optional kit)
Internal comm. protocols	CAN bus, Modbus TCP/RTU
External comm. protocols	MQTT

Safety

Ingress Protection (IP)	IP55
Protection class	I
Overvoltage category (OVC)	III
Max. short-circuit current	50kA
Min. required SC current	2kA

Operating conditions

Operating environment	Outdoor
Thermal management	Fan, Heater
Operating amb. temp. range [1]	-20 - +45°C
Operating relative humidity [2]	5 - 95% NC
Max. operating altitude	2000m

1. Derating from 45 °C
2. Non-condensing

Physical specifications

Dimensions (HxWxD)(mm)	2544x6360x2420
Net. weight (cabinet only)	6916kg
Color	RAL 7035
Status indicator (type)	-
Max. batt. capacity (5U)	126
Installed PixiiBoxes	0
Max. PixiiBox capacity	162

Warranty and compliance

Security and safety standards [1]

RED (2014/53/EU) - Cybersecurity (effective Aug 2025),
RPEQ: Mechanically certified for lifting

Grid standards [2]

AS/NZS 4777.2 (AU+NZ),
EREC G99 (Type A & B) (UK),
IEC/EN 50549-1 (Type A & B) (EU),
VDE-AR-N 4105 (DE),
VDE-AR-N 4110 - Pending (DE)

EMC standards

IEC/EN 61000-6-2, IEC/EN 61000-6-4

Environment standards

ETSI EN 300 019-2-1 (Class 1.2),
ETSI EN 300 019-2-2 (Class 2.3),
ETSI EN 300 019-2-3 (Class 3.2)

Regional compliance

Load Restraint Guide 2018 (AU)

Warranty (years/cycles) [3]	See note

1. Note that certifications and compliance for Safety, Grid, EMC, and Environmental standards for the PowerBase are based on the individual BESS cabinets used in this base configuration.
2. Designed in accordance with the relevant national and international standards listed above. Certification to specific revisions available on request. Additional local requirements may apply. ***System approval pending. Currently valid for PixiiBox.***
3. Warranty terms may vary based on your SLA agreement. Please review the warranty document for details.