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PowerBase XLP

900kW/2MWh, Multi-cooling, LFP

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.

BESS for energy- and power-demanding sites

The PowerBase XLP is a large scale high-power and 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.

Power intense with hybrid cooling

Fully equipped with high-capacity LFP batteries and hybrid cooling. Air-conditioned battery section ensures stable operation in heat-intensive and high-use applications.

Highlights

- Shipped with batteries installed
- Dual-zone active cooling system
- Single-lift operation
- Galvanic isolation (AC-DC)
- European quality & GDPR compliance
- Safe ~48V installation and operation

Key functions

- Ideal for EV site load support
- Peak shaving
- Balance market participation
- Electricity market participation

9 x XLP aircon cabinets with 100kW power and 225kWh capacity (202.6kWh @DoD 90%)

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AC specifications

Grid connection type	TT / TN
Phase config. (grid)	3ph
AC voltage (-10/+15%)	400V
Nominal frequency (grid)	50Hz
Nominal AC current	1566Arms (3Ph+N+PE)
Max. AC current (input)	1791Arms (3Ph+N+PE)
Nom. cont. AC power (±2%) [1]	900kW
Max. apparent power	900kVA
Max. reactive power	833kVAr
Power factor (Cos φ leading)	0.5 - 1
Power factor (Cos φ lagging)	0.5 - 1
THDi (grid connection)	<5%
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. Time limited boost power is possible. Contact Pixii for details.

DC specifications

Installed capacity (max)	2025.7kWh
Usable capacity (max)	1823.1kWh
Max. system capacity	2025.7kWh
Nominal DC voltage	~48V

Efficiency

Max. efficiency (inverter)	96.9%

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 [1]	Fan, Heater, Aircon
Operating amb. temp. range [2]	-20 - +55°C
Operating relative humidity [3]	5 - 95% NC
Max. operating altitude	2000m

1. Battery section is cooled via active air-conditioning, while the power conversion compartment (housing PixiiBox units) is fan cooled.
2. Derating from 45°C
3. Non-condensing.

Physical specifications

Dimensions (HxWxD)(mm)	2528x6334x2380
Net. weight (cabinet only)	7972kg
Net weight (equipped) [1]	24262kg
Color	RAL 7035
Status indicator (type)	-
Installed batteries (5U)	126
Max. batt. capacity (5U)	126
Installed PixiiBoxes	270
Max. PixiiBox capacity	324

1. Includes PixiiBoxes and batteries.

Battery

Battery ID	LFP 314Ah 16S 5U 19in A
Battery chemistry	LFP
Cells in series (qty)	16
Battery block capacity (Ah)	314Ah
Battery block capacity (kWh)	16.08kWh
Max. depth of disch. (DoD)	90%
Max. charge/discharge cur.	157/157A
Max. C-rate	0.5C
Rack height (Units)	5U
Over-current protection	Breakers, Electronic
Dimensions (HxWxD)(mm)	219.5x440x780
Net. weight (battery block)	125kg
Battery connection type	Quick
Cycle life (cycles @%DoD) [1]	7600 (90%)

1. Temp. 25 ± 5°C and C-rate 0,5, EOL: 70% SoH

Warranty and compliance

Security and safety standards [1]

IEC/EN 62040-1, IEC/EN 62109-1, IEC/EN 62109-2, IEC/EN 62477-1,
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 61000-6-1, IEC/EN 61000-6-2,
IEC/EN 61000-6-3, 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)

Battery standards

IEC/EN 62619, UL1973, UL9540A, UN38.3

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.