



## PowerBase XLP

Cabinet only, Multi-cooling



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.

### Scalable base with hybrid cooling

Supports up to 900 kW power and 2 MWh capacity. Battery section features active air-conditioned cooling, making it ideal for high-throughput or warm, demanding environments.

## Highlights

- Pre-wired and pre-configured
- 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 up to 100kW power and 225kWh total capacity per cabinet*

# PowerBase XLP Cabinet only, Multi-cooling

| AC specifications                |         |
|----------------------------------|---------|
| Grid connection type             | TT / TN |
| Phase config. (grid)             | 3ph     |
| AC voltage (-10/+15%)            | 400V    |
| Nominal frequency (grid)         | 50Hz    |
| Max. AC power (±2%) <sup>1</sup> | 900kWp  |
| 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) | 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 <sup>1</sup>          | Fan, Heater, Aircon |
| Operating amb. temp. range <sup>2</sup>  | -20 - +55°C         |
| Operating relative humidity <sup>3</sup> | 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)<br><sub>1</sub> | 2544x6360x2642 |
| Net. weight (cabinet only)             | 7972kg         |
| Color                                  | RAL 7035       |
| Status indicator (type)                | -              |
| Max. batt. capacity (5U)               | 126            |
| Installed PixiiBoxes                   | 0              |
| Max. PixiiBox capacity                 | 324            |

1. Depth includes aircon units. Footprint on ground: 2420mm

| Warranty and compliance                                                                                                                                                                                             |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Security and safety standards<sup>1</sup></b><br>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 |

|                                                                                                                                                                            |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Grid standards<sup>2</sup></b><br>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) |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                                                                                                |
|------------------------------------------------------------------------------------------------|
| <b>EMC standards</b><br>IEC/EN 61000-6-1, IEC/EN 61000-6-2, IEC/EN 61000-6-3, IEC/EN 61000-6-4 |
|------------------------------------------------------------------------------------------------|

|                                                                                                                                   |
|-----------------------------------------------------------------------------------------------------------------------------------|
| <b>Environment standards</b><br>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) |
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|                                                              |
|--------------------------------------------------------------|
| <b>Regional compliance</b><br>Load Restraint Guide 2018 (AU) |
|--------------------------------------------------------------|

|                                            |          |
|--------------------------------------------|----------|
| <b>Warranty (years/cycles)<sup>3</sup></b> | 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.