



# PowerShaper XL

Cabinet only, Aircon



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 long-duration use

Designed for energy-oriented applications. Ideal for optimizing energy use through PV self-consumption, peak shaving and demand charge reduction, saving operational costs and meeting green targets

### 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

PowerShaper XL is delivered pre-wired and pre-configured using standard Pixii components, including Pixii Gateway. To simplify installation, systems can be shipped with batteries already in place.

### 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.

### High-capacity with active cooling

Designed for energy-focused applications in warm environments. Active air-conditioned battery cooling supports more than four times the energy of the traditional PowerShaper.

## Highlights

- Active aircon cooling system
- Pre-wired and pre-configured
- Modular and scalable
- 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



*PowerShaper XL Aircon is a modular BESS that grows with your system's needs*

# PowerShaper XL Cabinet only, Aircon

| AC specifications                       |            |
|---|------------|
| Grid connection type                    | TT / TN    |
| Phase config. (grid) <sup>2</sup>       | 3ph        |
| Nominal AC voltage                      | 400V       |
| Nominal AC voltage range                | 207 - 260V |
| Nominal frequency (grid)                | 50Hz       |
| Max. AC power (±2%) <sup>1</sup>        | 60kWp      |
| Off-grid operation support <sup>3</sup> | Yes        |
| Generator backup support                | Yes        |
| Phase config. (genset) <sup>4</sup>     | 1ph, 3ph   |
| Frequency range (genset)                | 45 - 66Hz  |

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  
3. Single cabinet only. Requires off-grid control system. Local modification for load prioritization.  
4. A 3-phase connection requires at least three PixiiBoxes, one for each phase

| DC specifications    |          |
|----------------------|----------|
| Installed capacity   | 0kWh     |
| Max. system capacity | 200.7kWh |
| 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 | 10kA |
| Min. required SC current   | 1kA  |

| Operating conditions                     |                |
|--|----------------|
| Operating environment                    | Outdoor        |
| Thermal management                       | Heater, Aircon |
| Operating amb. temp. range <sup>1</sup>  | -20 - +50°C    |
| Operating relative humidity <sup>2</sup> | 5 - 95% NC     |
| Max. operating altitude                  | 2000m          |

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

| Physical specifications    |                |
|----------------------------|----------------|
| Dimensions (HxWxD)(mm)     | 2324x1194x1292 |
| Net. weight (cabinet only) | 592kg          |
| Color                      | RAL 7035       |
| Status indicator (type)    | -              |
| Max. batt. capacity (5U)   | 14             |
| Installed PixiiBoxes       | 0              |
| Max. PixiiBox capacity     | 18             |

| Warranty and compliance   |          |
|---|----------|
| <b>Security and safety standards</b>  |          |
| RED (2014/53/EU) - Cybersecurity (effective Aug 2025),<br>RPEQ: Mechanically certified for lifting                        |          |
| <b>Grid standards <sup>1</sup></b>  |          |
| AS/NZS 4777.2 (AU+NZ),<br>EREC G99 (Type A & B) (UK), RD 647 (ES),<br>VDE-AR-N 4105 (DE),<br>VDE-AR-N 4110 - Pending (DE) |          |
| <b>EMC standards</b>  |          |
| IEC/EN 61000-6-2, IEC/EN 61000-6-4  |          |
| <b>Environment standards</b>  |          |
| ETSI EN 300 019-2-1 (Class 1.2),<br>ETSI EN 300 019-2-2 (Class 2.3),<br>ETSI EN 300 019-2-3 (Class 3.2)                   |          |
| <b>Regional compliance</b>  |          |
| Load Restraint Guide 2018 (AU)  |          |
| <b>Warranty (years/cycles) <sup>2</sup></b>   | See note |

1. 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.**  
2. Warranty terms may vary based on your SLA agreement. Please review the [warranty document](#) for details.