www.pixii.com

PowerShaper 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 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.

Scalable for long-duration storage

Supports more than four times the energy capacity of the traditional PowerShaper. A flexible BESS for energy-oriented applications where extended storage duration is key.

Highlights

- Robust IP55 industrial cabinet
- Pre-configured and pre-wired
- 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

Can be delivered prewired on a transport-ready skid with AC connection cabinet.

PowerShaper 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]	60kWp
Off-grid operation support [3]	Yes
Generator backup support	Yes
Phase config. (genset) [4]	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 (max)	0kWh
Max. system capacity	225.1kWh
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	Fan, Heater
Acoustic noise 1m distance [3]	<67.2dB(A)
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.
3. 49.6dBA ~50% load. With sound reduction panel @1m distance. 61.4dBA (46.4dBA~50% load)

Physical specifications

Dimensions (HxWxD)(mm)	2324x1194x1160
Net. weight (cabinet only)	553kg
Color	RAL 7035
Status indicator (type)	-
Max. batt. capacity (5U)	14
Installed PixiiBoxes	0
Max. PixiiBox capacity	18

Warranty and compliance

Security and safety standards

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

Grid standards [1]

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 (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) [2]	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