PIXII

PowerShaper XLP

100kW/225kWh, Aircon, 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.

For energy- and power-demanding applications

Designed for energy- and power-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 XLP is based on Pixii's modular system architecture. Delivered pre-wired and pre-configured with Pixii Gateway included. Batteries can be delivered pre-installed to ease deployment.

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 LFP batteries and hybrid cooling. Stores more than four times the energy and delivers over twice the power of the traditional PowerShaper. Built for intensive use.

Highlights

- Shipped with batteries installed
- Dual-zone active cooling system
- Modular and scalable
- 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

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

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AC specifications

Grid connection type	TT / TN
Phase config. (grid)[2]	3ph
Nominal AC voltage	400V
Nominal AC voltage range	207 - 260V
Nominal frequency (grid)	50Hz
Nominal AC current	174Arms (3Ph+N+PE)
Max. AC current (input)	199Arms (3Ph+N+PE)
Nom. cont. AC power (±2%)[1]	100kW
Max. AC power (±2%)	120kWp
Max. apparent power	120kVA
Max. reactive power	108kVAr
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.
2. A 3-phase connection requires at least three PixiiBoxes, one for each phase.

DC specifications

Installed capacity	225.1kWh
Usable capacity	202.6kWh
Max. system capacity	225.1kWh
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	10kA
Min. required SC current	1kA

Operating conditions

Operating environment	Outdoor
Thermal management[1]	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)	2324x1194x1320
Net. weight (cabinet only)	618kg
Net weight (equipped)[1]	2440kg
Color	RAL 7035
Status indicator (type)	-
Installed batteries (5U)	14
Max. batt. capacity (5U)	14
Installed PixiiBoxes	36
Max. PixiiBox capacity	36

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
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[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 - 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)[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.