



PowerShaper XL

Cabinet only, Aircon



Save costs through battery services like peak shaving, arbitrage and PV self-consumption



Generate income from renting out battery capacity to help support your local grid, through virtual power plants

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.

With access to performance stats, historical data, and alarms, you have a complete overview of all your sites in real time.

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
- Works with most PV installations
- For energy oriented applications
- Safe ~48V installation and operation

Key functions

- PV self-consumption
- Peak shaving
- PV self-consumption
- EV charging



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

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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
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	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	Vonkajší
Thermal management	Heater, Aircon
Operating amb. temp. range ¹	-20 - +50°C
Operating relative humidity ²	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	
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), RD 647 (ES), VDE-AR-N 4105 (DE), VDE-AR-N 4110 - Pending (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	Pozri poznámku

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.