



# PowerShaper XL

60kW/200kWh, 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.

## 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.

### Complete high-capacity solution

Equipped with safe LFP batteries and built for long-duration use. Offers more than four times the energy capacity of the traditional PowerShaper. Ideal for high energy demand sites.

## Highlights

- Shipped with batteries installed
- Safe and stable LFP batteries
- 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 60kW/200kWh, LFP

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
Nominal AC current	86Arms (3Ph+N+PE)
Max. AC current (input)	99Arms (3Ph+N+PE)
Nom. cont. AC power (±2%) <sup>1</sup>	60kW
Max. AC power (±2%)	60kWp
Max. apparent power	60kVA
Max. reactive power	54kVAr
Power factor (Cos φ leading)	0.5 - 1
Power factor (Cos φ lagging)	0.5 - 1
THDi (grid connection)	5%
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	200.7kWh
Usable capacity	180.6kWh
Max. system capacity	200.7kWh
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	Fan, Heater
Operating amb. temp. range <sup>1</sup>	-20 - +45°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)	2324x1194x1160
Net. weight (cabinet only)	553kg
Net weight (equipped) <sup>1</sup>	2269kg
Color	RAL 7035
Status indicator (type)	-
Installed batteries (5U)	14
Max. batt. capacity (5U)	14
Installed PixiiBoxes	18
Max. PixiiBox capacity	18

1. Includes PixiiBoxes and batteries.

Battery	
Battery ID	LFP 280Ah 16S 5U 19in A
Battery chemistry	LFP
Cells in series (qty)	16
Battery block capacity (Ah)	280Ah
Battery block capacity (kWh)	14.34kWh
Max. depth of disch. (DoD)	90%
Max. charge/discharge cur.	140/140A
Max. C-rate	0.5C
Rack height (Units)	5U
Over-current protection	Breakers, Electronic
Dimensions (HxWxD)(mm)	219.5x440x780
Net. weight (battery block)	120kg
Battery connection type	Quick
Cycle life (cycles @DoD) <sup>1</sup>	7600 (90%)

1. Temp. 25 ± 5°C and C-rate 0,5, EOL: 70% SoH

Warranty and compliance	
<b>Security and safety standards</b>	
RED (2014/53/EU) - Cybersecurity (effective Aug 2025), RPEQ: Mechanically certified for lifting	
<b>Grid standards<sup>1</sup></b>	
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>	
IEC/EN 61000-6-2, IEC/EN 61000-6-4	
<b>Environment standards</b>	
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)	

<b>Regional compliance</b>	
Load Restraint Guide 2018 (AU)	
<b>Battery standards</b>	
IEC/EN 62619, UN38.3	

<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. <b>System approval pending. Currently valid for PixiiBox.</b> 2. Warranty terms may vary based on your SLA agreement. Please review the <u>warranty document</u> for details	