



## PowerShaper XD

50kW/112kWh, Aircon, LFP



Fully integrated, pre-wired and factory configured system that reduces the installation time significantly.



EMS for remote monitoring, configuration and control, eliminates the need for complex on-site configuration.

## Flexible, scalable energy storage

PowerShaper XD is a modular IP55 system for on-grid, off-grid, and hybrid use. Built for solar self-consumption, peak shaving, grid support, and other value-stacking applications.

### 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.

### Pixii Energy Architect (EMS)

Managing power in on-grid and micro-grid setups. It automatically controls and balances different power sources like solar panels and generators. Tracking battery health, charge level, and energy use.

### Air-conditioned system with LFP

This system configuration includes high-energy LFP batteries with up to 145 kWh capacity per cabinet and active air-conditioned cooling. Ideal for warm environments and frequent cycling.

## Highlights

- Shipped with batteries installed
- UL9540A tested with LFP batteries
- Modular and scalable
- Galvanic isolation (AC-DC)
- Quiet operation at full power
- Safe ~48V installation and operation

## Key functions

- Hybrid and off-grid configurable
- Integrated inverter and battery
- On/off-grid compatible
- Backup and fast response



*You can add up to 3 cabinets as your energy need evolves*

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## AC specifications

Grid connection type	IT / TT / TN
Phase config. (grid)	1ph / 3ph
AC voltage (-10/+15%)	230V / 400V
Nominal frequency (grid)	50Hz
Max. AC current (input)	8Arms (3Ph+N+PE)
Nom. cont. AC power (±2%)	50kW
Max. AC power (±2%)	60kWp
THDi (grid connection)	<5%
Off-grid operation support	Yes
Generator backup support	No

## DC specifications

Installed capacity (max)	112.5kWh
Usable capacity (max)	101.3kWh
Max. system capacity	112kWh
Nominal DC voltage	~51.2V

## Efficiency

Max. efficiency (MPPT)	98.0%
Weighted Euro efficiency (MPPT)	96.5%

## Communication and connectivity

Wireless interfaces	Wi-Fi hotspot (local AP), 4G (optional kit)
External comm. protocols	MQTT, Modbus

## Safety

Ingress Protection (IP)	IP55
Max. short-circuit current	10kA

## Operating conditions

Operating environment	Outdoor
Thermal management	Heater, Aircon
Acoustic noise 1m distance	<57dB(A)
Operating amb. temp. range	-20 - +55°C
Operating relative humidity	5 - 95% NC

## Physical specifications

Dimensions (HxWxD)(mm)	1155x835x2300
Net. weight (cabinet only)	356kg
Net weight (equipped)	1267kg
Color	RAL 7035
Installed batteries (5U)	7
Max. batt. capacity (5U)	7
Installed PixiiBoxes	18
Max. PixiiBox capacity	18

## 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) <sup>1</sup>	7600 (90%)

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

## Warranty and compliance

<b>Battery standards</b>	IEC/EN 62619, UL1973, UL9540A, UN38.3
<b>Warranty (years/cycles)</b>	10/10000