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PowerShaper XL

60kW/200kWh, LFP

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.

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
- 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

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	86Arms (3Ph+N+PE)
Max. AC current (input)	99Arms (3Ph+N+PE)
Nom. cont. AC power (±2%) [1]	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 [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	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	Vonkajší
Thermal management	Fan, Heater
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.

Physical specifications

Dimensions (HxWxD)(mm)	2324x1194x1160
Net. weight (cabinet only)	553kg
Net weight (equipped) [1]	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) [1]	7600 (90%)

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 - 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)

Battery standards

IEC/EN 62619, UN38.3

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