



PowerBase XLP

1MW/2MWh, Multi-cooling, 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.

BESS for energy- and power-demanding sites

The PowerBase XLP is a large scale high-power and capacity energy storage system. Designed for quick deployment on a steel skid with container-format footprint. It is easy to transport to new locations if needed.

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

The base is designed for easy deployment. Cabinets can be shipped with batteries installed and come pre-wired, with a separate AC distribution cabinet to simplify installation and reduce on-site work.

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 high-capacity LFP batteries and hybrid cooling. Air-conditioned battery section ensures stable operation in heat-intensive and high-use applications.

Highlights

- Shipped with batteries installed
- Dual-zone active cooling system
- Single-lift operation
- 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



9 x XLP aircon cabinets with 112kW power and 225kWh capacity (202.6kWh @DoD 90%)

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AC specifications		Efficiency		Battery	
Grid connection type	TT / TN	Max. efficiency (inverter)	96.9%	Battery ID	LFP 314Ah 16S 5U 19in A
Phase config. (grid)	3ph	Communication and connectivity		Battery chemistry	LFP
AC voltage (-10/+15%)	400V	Wired interfaces	Ethernet LAN, RS 485 (Modbus), Digital IO	Cells in series (qty)	16
Nominal frequency (grid)	50Hz	Wireless interfaces	Wi-Fi hotspot (local AP), 4G (optional kit)	Battery block capacity (Ah)	314Ah
Nominal AC current	3x 522Arms (3Ph+N+PE)	Internal comm. protocols	CAN bus, Modbus TCP/RTU	Battery block capacity (kWh)	16.08kWh
Max. AC current (input)	3x 597Arms (3Ph+N+PE)	External comm. protocols	MQTT	Max. depth of disch. (DoD)	90%
Nom. cont. AC power (±2%) ¹	1000kW	Safety		Max. charge/discharge cur.	157/157A
Max. apparent power	1000kVA	Ingress Protection (IP)	IP55	Max. C-rate	0.5C
Max. reactive power	933kVAR	Protection class	I	Rack height (Units)	5U
Power factor (Cos φ leading)	0.5 - 1	Overvoltage category (OVC)	III	Over-current protection	Breakers, Electronic
Power factor (Cos φ lagging)	0.5 - 1	Fire suppression (optional)	Aerosol	Dimensions (HxWxD)(mm)	219.5x440x780
THDi (grid connection)	<5%	Max. short-circuit current	50kA	Net. weight (battery block)	125kg
Off-grid operation support	No	Min. required SC current	2kA	Battery connection type	Quick
Generator backup support	No	Operating conditions		Cycle life (cycles @%DoD) ¹	7600 (90%)
<i>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. Time limited boost power is possible. Contact Pixii for details.</i>		Operating environment	Outdoor	<i>1. Temp. 25 ± 5°C and C-rate 0,5, EOL: 70% SoH</i>	
DC specifications		Thermal management ¹	Fan, Heater, Aircon	Warranty and compliance	
Installed capacity (max)	2025.7kWh	Operating amb. temp. range ²	-20 - +55°C	Security and safety standards¹	
Usable capacity (max)	1823.1kWh	Operating relative humidity ³	5 - 95% NC	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	
Max. system capacity	2025.7kWh	Max. operating altitude	2000m	Grid standards²	
Nominal DC voltage	~48V	<i>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.</i>		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 (DE)	
Physical specifications		Dimensions (HxWxD)(mm)		2528x6334x2380	
Net. weight (cabinet only)		7972kg		EMC standards	
Net weight (equipped) ¹		24370kg		IEC/EN 61000-6-1, IEC/EN 61000-6-2, IEC/EN 61000-6-3, IEC/EN 61000-6-4	
Color		RAL 7035		Environment standards	
Status indicator (type)		-		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)	
Installed batteries (5U)		126		Regional compliance	
Max. batt. capacity (5U)		126		Load Restraint Guide 2018 (AU)	
Installed PixiiBoxes		324		Battery standards	
Max. PixiiBox capacity		324		IEC/EN 62619, UL1973, UL9540A, UN38.3	
<i>1. Includes PixiiBoxes and batteries.</i>		Warranty (years/cycles)³		See note	
<i>1. Note that certifications and compliance for Safety, Grid, EMC, and Environmental standards for the PowerBase are based on the individual BESS cabinets used in this base configuration. 2. 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. 3. Warranty terms may vary based on your SLA agreement. Please review the warranty document for details.</i>					