

EG-Pixii

Modular Energy Storage

Secure, connected and sustainable: Unlock the full potential of your battery energy storage.

Applications

- Commercial / Industrial
- Telecom
- EV Charging
- Residential
- Micro Grid & Off Grid

PixiiBox

- All-in-one box (bi-directional inverter, solar converter, rectifier).
- Beating heart of the system
- Wide range of functions (peak shaving, PV self-consumption, frequency support, phase balancing).

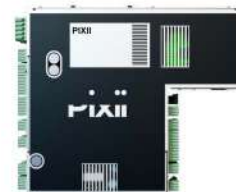


Characteristics

- Connects to a range of energy sources, like solar panels, the grid, generators and more.
- Allows the energy to flow from the grid to the battery and back to the grid through the same power electronics.
- Software configurable and can be set to perform various functions.
- Ensures optimal performance and adaptability.
- With modular approach it's easy to scale your BESS (Battery Energy Storage System) by adding more modules, batteries or cabinets.
- Supports a wide range of battery brands and technologies (LFP / NMC).

Pixii Gateway

- Built-in powerful controller
- Enables connection of monitor and control of all components within the system as well as external sensors and other hardware.
- Allows to configure a wide range of services, monitor and optimize performance, collect energy data, manage alarms.
- Web App for effortless setup, configuration and advanced monitoring of your energy system.
- Real time data to enable optimize cost savings and performance.



One solution twice the impact

- Value stacking is the art of combining multiple services in a BESS to unlock its full potential.
- Your BESS is a powerful tool that not only saves you money but also creates new income opportunities.

Income-generating services



Wholesale electricity trading

Trade stored energy in bulk to balance supply and demand.



Frequency markets

Provide rapid-response energy to maintain grid frequency and stability.



Local flexibility markets

Provide energy storage and release services to manage local grid demands.



Voltage support

Help maintain stable voltage levels across the grid.

Cost-saving services



Peak shaving

Reduce energy use during peak hours and lower your electricity costs.



Arbitrage

Buy and store electricity when prices are low and use it when prices are high.



PV self-consumption

Maximize your use of solar energy by storing excess energy for later.



Backup power

Prevent costly downtime during outages to ensure business continuity.



Power boost

Handle short-term spikes in demand without overloading the grid.

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Quality in all sizes

- All products built on the same modular architecture with the same building blocks.
- Each system combines energy-saving features with income-generating capabilities to create ideal solution.
- Indoor (ID) or outdoor setup.



EG-Home
20kW up to 20kWh¹⁾
LFP, ≤1C

- Store yourself produced solar energy
- Utilize your existing solar installation
- Safe LFP battery technology
- Operates at extreme temp. down to -40°C



EG-Pixii Home hybrid
10kW up to 20kWh / 15kWh¹⁾
LFP, ≤1C

- All-in-one easy installation
- Built-in solar inverter
- Control with Pixii Home App
- Operates at extreme temp. down to -40°C



EG-PowerSharper ID
50kW up to 50kWh¹⁾
LFP, ≤1C

- Small m² footprint
- Scalable and flexible
- Fan cooled



EG-PowerSharper
50kW up to 50kWh¹⁾
LFP, ≤1C

- 50kW up to 50kWh LFP
- 40kW up to 100kWh NMC
- Fan cooled or aircon



EG-PowerSharper XL ID
50kW up to 320kWh¹⁾
LFP, ≤0.15C

- For energy-oriented applications
- Multiply systems can be linked and managed as a single unit
- Fully grid-ready



EG-PowerSharper XL
60kW up to 225kWh¹⁾
LFP, ≤0.3C

- For energy demanding applications
- Shipped with batteries installed

EG-PowerSharper XLP
100kW up to 225kWh¹⁾
LFP, ≤0.5C

- For energy and power demanding applications
- Shipped with batteries installed



EG-PowerBase
600kW up to 600kWh¹⁾
LFP, ≤1C

- 600kW up to 600kWh LFP
- 480kW up to 1,2MWh NMC
- Pre-wired on a 20 foot steel container platform
- Easy to relocate



EG-PowerBase XL
540kW up to 2MWh¹⁾
LFP, ≤0.3C

- High-capacity energy storage
- Pre-wired on a 20 foot steel container platform
- Easy to relocate
- Fast deployment



EG-PowerBase XLP
900kW up to 2MWh¹⁾
LFP, ≤0.5C

- High-capacity energy storage with additional power
- Pre-wired on a 20 foot steel container platform
- Easy to relocate
- Fast deployment

Note: 1) The stated power and energy capacities are baseline, or nominal, values.

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EG-Pixii Home

10kW/10kWh – 20kW/20kWh, LFP

Residential storage, industrial grade quality

EG-Pixii Home is a smart and reliable battery system, designed to lower your electricity bills. Increase your energy independence, and support a greener future. Built with industrial-grade quality and engineered to meet challenging outdoor conditions.

Highlights

- Robust IP55 industrial cabinet
- Operates at temperature down to -40°C
- European quality & GDPR compliance
- Safe ~48V installation and operation

Key functions

- Peak shaving
- PV self-consumption
- Backup power options available
- Electricity market participation



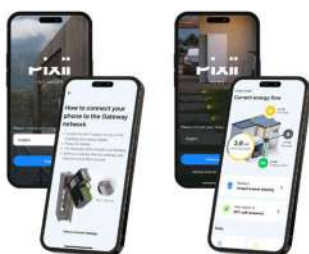
Save costs through battery services like peak shaving, PV self-consumption and backup power.



The BESS that pays for itself by generating revenue from various electricity markets to maximize ROI.

Features

- **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.
- **Backup power when the grid fails**
 - Stay powered during outages. Add an off-grid backup box to secure critical appliances and keep your home running, even when the grid goes down. Sold separately.
- **Smart monitoring and install tools**
 - Save time with guided setup and simplified commissioning using the Pixii Installer App. Homeowners get real-time insights and full control through the Pixii Home App, straight from their phone.
- **Built scale with your needs (10kW version)**
 - Delivered with 10kW power and 10kWh capacity, this version supports AC-coupled solar and can be expanded to 20kW / 20kWh by adding inverter and battery modules based on your future needs.
- **Hybrid performance (Hybrid version)**
 - The Hybrid model fits up to 3 MPP trackers for up to 15 kWp of PV power and 10 kW bi-directional AC power for efficient grid interaction. It comes with 10 kWh battery capacity, expandable to 20 kWh.



Fast setup with Installer App and full control for homeowners with the Pixii Home App

PMA_EG-Pixii_Home / PMA01250914

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Technical Data Sheet

Model EG-Pixii Home [kW/kWh/kWp]	10/10/- LFP	20/20/- LFP	10/10/0 Hybrid LFP	10/10/15 Hybrid LFP	10/20/15 Hybrid LFP
AC SPECIFICATIONS					
Grid connection type	TT / TN		IT / TT / TN		
Phase configuration (grid) ¹⁾	3 ph		1ph / 3ph		
Nominal AC voltage	400 V		230 V / 400 V		
Nominal AC voltage range	207–260 V				
Nominal Frequency (grid)	50 Hz				
Nominal AC current	14.4 Arms (3Ph+N+PE)	28.8 Arms (3Ph+N+PE)	14.4 Arms (3Ph+N+PE)		
Max. AC current (input)	33.2 Arms (3Ph+N+PE)		16.6 Arms (3Ph+N+PE)		
Nominal cont. AC power (±2%)	10kW	20kW	10kW		
Max. AC power (±2%)	10kWp	20kWp	10kWp		
Max. apparent power	10kVA	20kVA	20kVA		
Max. reactive power	9kVAr	18kVAr	18kVAr		
Power factor (Cos φ leading)			0.5 - 1		
Power factor (Cos φ lagging)			0.5 - 1		
THDi (grid connection)			5%		
Off-grid operation support ²⁾			Yes		
Generator backup support ²⁾	No		Yes		
DC SPECIFICATIONS					
Installed capacity	10.2 kWh	20.5 kWh	10.2 kWh		20.5 kWh
Usable capacity	8.2 kWh	16.4 kWh	8.2 kWh		16.4 kWh
Max. system capacity	20.5 kWh				
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)				
Internal comm. protocols	CAN bus, Modbus TCP/RTU				
External comm. protocols	MQTT				
SAFETY					
Ingress Protection (IP)	IP55				
Protection class	I				
Overvoltage category (OVC)	II				
Max. short-circuit current	10kA				
Min. required SC current	0.5kA				
OPERATING CONDITIONS					
Operating environment	Outdoor				
Thermal management	Fan, Heater				
Acoustic noise 1m distance	<60 db(A)				
Operating amb. temp. range ³⁾	-40 - +55°C				
Operating relative humidity	5-95 % non-condensing				
Max. operating altitude	2000 m				
PHYSICAL SPECIFICATIONS					
Dimensions (HxWxD) [mm]	1717 x 684 x 387				
Net weight (cabinet only) [kg]	81		84		
Net weight (equipped) ⁴⁾ [kg]	171	261	174	180	264
Color	RAL 9006				
Status indicator (type)	LED				
Installed / Max.batteries	2 / 4	4 / 4	2 / 4	2 / 4	4 / 4
Installed / Max. PixiiBoxes	3 / 6	6 / 6	3 / 6	6 / 6	6 / 6

- Notes:**
- 1) 3-phase connection requires at least 3 PixiiBoxes, one for each phase.
 - 2) Single cabinet only.
 - 3) Battery startup below 0°C may require internal heating and AC power.
 - 4) Includes PixiiBoxes and batteries.

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Model EG-Pixii Home [kW/kWh/kWp]	10/10/- LFP	20/20/- LFP	10/10/0 Hybrid LFP	10/10/15 Hybrid LFP	10/20/15 Hybrid LFP
BATTERY					
Battery ID			LFP 100Ah 16S 3U 19in S		
Battery chemistry			LFP (LiFePo)		
Cells in series			16		
Battery block capacity [Ah/kWh]			100 / 5.12		
Max. depth of discharge (DoD)			80%		
Max. charge/discharge current [A]			100 / 100		
Max. C-rate			1C		
Rack height (units)			3U		
Over-current protection			Breakers, Electronic		
Dimensions (HxWxD) [mm]			133 x 442 x 440		
Net weight (battery block) [kg]			42		
Battery connection type			Screw		
REGULATIONS					
Security and safety	IEC/EN 62040-1, IEC/EN 62109-1, IEC/EN 62109-2, IEC/EN 62477-1, RED (2014/53/EU)				
EMC standards	IEC/EN 61000-3-2, IEC/EN 61000-3-3, IEC/EN 61000-6-1, IEC/EN 61000-6-3				
Environmental standards	ETSI EN 300 019-2-3 (Class 3.2), IEC/EN 63000 (RoHS)				
Battery standards	IEC/EN 62619, UN38.3				

Specifications subject to change without notice.

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EG-Pixii PowerSharper 50kW/51kWh, LFP

Flexible grid tied battery energy storage

EG-Pixii PowerSharper is a modular and scalable all-in-one energy storage solution. Cabinets integrate PixiiBox converter modules, battery modules, and Pixii Gateway, and can be tailored to your needs for on- or off-grid use with local or EMS control.

Highlights

- Robust IP55 industrial cabinet (Outdoor)
- Safe and stable LFP batteries
- Modular and scalable
- Galvanic isolation (AC-DC)
- European quality & GDPR compliance
- Safe ~48V installation and operation

Key functions

- Dynamic load balancing
- Backup & off-grid operation support
- Peak shaving
- Electricity market participation



Save costs through battery services like peak shaving, PV self-consumption, power boost and backup power.



The BESS that pays for itself by generating revenue from various electricity markets to maximize ROI.

Features

- **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.
- **Modular and scalable BESS platform**
 - PowerSharper is available in outdoor, indoor, and air-conditioned versions. Scales easily from kW/kWh to MW/MWh with multi-cabinet configurations.
- **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.
- **Reliable and stable power supply**
 - Maintain operations during power interruptions. The system supports off-grid functionality to keep essential loads running when the grid is down. No extra hardware needed.
- **Active cooling for demanding sites (Aircon version)**
 - Equipped with integrated airconditioning, PowerSharper Aircon is built for demanding environments and supports stable operation in high ambient temperatures.
- **Compact storage for indoor sites (Indoor version)**
 - PowerSharper Indoor offers the same modular flexibility in a compact footprint for indoor environments. Ideal where space is limited or outdoor installation is not an option.



Multiple PowerSharper can be delivered as a skid solution for larger applications.



PowerSharper Aircon and ID (Indoor) are modular BESS that grow with your system's needs.



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Technical Data Sheet

EG-Pixii PowerSharper [kW/kWh]	50/51 Fan-filter, LFP	50/51 Aircon, LFP	50/51 Indoor (ID), LFP
AC SPECIFICATIONS			
Grid connection type ¹⁾	IT / TT / TN		TT / TN
Phase configuration (grid) ²⁾	1ph / 3ph		3ph
AC voltage (-10/+15%)	230 V / 400 V		400 V
Nominal AC voltage range	207–260 V		
Nominal Frequency (grid)	50 Hz		
Nominal AC current	72 Arms (3Ph+N+PE)		
Max. AC current (input)	83 Arms (3Ph+N+PE)		
Nominal cont. AC power (±2%)	50kW		
Max. AC power (±2%)	50kWp		
Max. apparent power	50kVA		
Max. reactive power	45kVAr		
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) ²⁾	1ph, 3ph		
Frequency range (genset)	45 – 66 Hz		
DC SPECIFICATIONS			
Installed capacity (max)	51.2 kWh		
Usable capacity (max)	46.1 kWh		
Max. system capacity	51.2 kWh		
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		IP20
Protection class	I		
Overvoltage category (OVC)	III		
Max. short-circuit current	10kA		
Min. required SC current	1kA		
OPERATING CONDITIONS			
Operating environment	Outdoor		Indoor
Thermal management	Fan, Heater	Heater, Aircon	Fan
Acoustic noise 1m distance	<66.20 db(A)	<64 db(A)	N/A
Operating amb. temp. range ⁴⁾	-20 - +45°C	-20 - +50°C	0 - +45°C
Operating relative humidity	5-95 % non-condensing		
Max. operating altitude	2000 m		
PHYSICAL SPECIFICATIONS			
Dimensions (HxWxD) [mm]	2115 x 706 x 932		1991 x 598 x 651
Net weight (cabinet only) [kg]	220	265	150
Net weight (equipped) ⁵⁾ [kg]	666	705	590
Color	RAL 7035		RAL 9005
Status indicator (type)	-		
Installed / Max. batteries (3U)	10 / 10	10 / 10	
Installed / Max. PixiiBoxes	15 / 18	15 / 15	

- Notes:**
- 1) IT/TT connection requires connection kit.
 - 2) 3-phase connection requires at least 3 PixiiBoxes, one for each phase.
 - 3) Single cabinet only. Requires off-grid control system. Local modification for load prioritization
 - 4) Derating from 45°C.
 - 5) Includes PixiiBoxes and batteries.

EG-Pixii PowerSharper

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EG-Pixii PowerSharper [kW/kWh]	50/51 Fan-filter, LFP	50/51 Aircon, LFP	50/51 Indoor (ID), LFP
BATTERY			
Battery ID		LFP 100Ah 16S 3U 19in A	
Battery chemistry		LFP (LiFePo)	
Cells in series		16	
Battery block capacity [Ah/kWh]		100 / 5.12	
Max. depth of discharge (DoD)		90%	
Max. charge/discharge current [A]		100 / 100	
Max. C-rate		1C	
Rack height (units)		3U	
Over-current protection		Breakers, Electronic	
Dimensions (HxWxD) [mm]		130.5 x 440 x 400	
Net weight (battery block) [kg]		41	
Battery connection type		Quick	
Cycle life (cycles @%DoD) ⁶⁾		3850 (90%)	
REGULATIONS			
Security and safety		IEC/EN 62477-1, RED (2014/53/EU)	
EMC standards		IEC/EN 61000-6-1, IEC/EN 61000-6-2, IEC/EN 61000-6-3, IEC/EN 61000-6-4	
Environmental 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)	
Battery standards		IEC/EN 62619, UL1973, UN38.3	

Notes: 6) Temp. 25±5°C and C-rate:1C, EOL: 70% SoH or 5800 cycles @90%DoD Temp. 25±5°C and C-rate:0.5C, EOL:70% SoH.

Specifications subject to change without notice.



PowerSharper Fan-filter



PowerSharper Aircon



PowerSharper Indoor

EG-Pixii PowerSharper

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EG-Pixii PowerSharper XL 60kW/200kWh, LFP

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.

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



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.

Features

- **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.
- **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.
- **Pre-wired, pre-configured**
 - EG-PowerSharper 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.
- **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.
- **Air-conditioned system with LFP (Aircon version)**
 - Combines safe LFP batteries with active air-conditioned battery cooling. Built for frequent cycling and long-duration use.



Can be delivered prewired on a transport-ready skid with AC connection cabinet.



EG-PowerSharper XL Aircon is a modular BESS that grows with your system's needs.

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Technical Data Sheet

EG-Pixii PowerSharper XL [kW/kWh]	60/200 LFP	60/200 Aircon, LFP
AC SPECIFICATIONS		
Grid connection type	TT / TN	
Phase configuration (grid) ¹⁾	3ph	
AC voltage (-10/+15%)	400 V	
Nominal AC voltage range	207–260 V	
Nominal Frequency (grid)	50 Hz	
Nominal AC current	86 Arms (3Ph+N+PE)	
Max. AC current (input)	99 Arms (3Ph+N+PE)	
Nominal cont. AC power (±2%)	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 ²⁾	Yes	
Generator backup support	Yes	
Phase config. (genset) ¹⁾	1ph, 3ph	
Frequency range (genset)	45 – 66 Hz	
DC SPECIFICATIONS		
Installed capacity (max)	200.7 kWh	
Usable capacity (max)	180.6 kWh	
Max. system capacity	200.7 kWh	
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	Heater, Aircon
Operating amb. temp. range ³⁾	-20 - +45°C	-20 - +50°C
Operating relative humidity	5-95 % non-condensing	
Max. operating altitude	2000 m	
PHYSICAL SPECIFICATIONS		
Dimensions (HxWxD) [mm]	2324 x 1194 x 1160	2324 x 1194 x 1292
Net weight (cabinet only) [kg]	553	592
Net weight (equipped) ⁴⁾ [kg]	2269	2308
Color	RAL 7035	
Status indicator (type)	-	
Installed / Max. batteries (5U)	14 / 14	
Installed / Max. PixiiBoxes	18 / 18	

- Notes:** 1) 3-phase connection requires at least 3 PixiiBoxes, one for each phase.
2) Single cabinet only. Requires off-grid control system. Local modification for load prioritization
3) Derating from 45°C.
4) Includes PixiiBoxes and batteries.

EG-Pixii PowerSharper XL

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EG-Pixii PowerSharper XL [kW/kWh]	60/200 LFP	60/200 Aircon, LFP
BATTERY		
Battery ID	LFP 280Ah 16S 5U 19in A	
Battery chemistry	LFP (LiFePo)	
Cells in series	16	
Battery block capacity [Ah/kWh]	280 / 14.34	
Max. depth of discharge (DoD)	90%	
Max. charge/discharge current [A]	140 / 140	
Max. C-rate	0.5C	
Rack height (units)	5U	
Over-current protection	Breakers, Electronic	
Dimensions (HxWxD) [mm]	219.5 x 440 x 780	
Net weight (battery block) [kg]	120	
Battery connection type	Quick	
Cycle life (cycles @%DoD) ⁵⁾	7600 (90%)	
REGULATIONS		
Security and safety	RED (2014/53/EU)	
EMC standards	IEC/EN 61000-6-2, IEC/EN 61000-6-4	
Environmental 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)	
Battery standards	IEC/EN 62619, UL1973, UN38.3	

Notes: 5) Temp. 25±5°C and C-rate:0.5C, EOL:70% SoH.

Specifications subject to change without notice.



PowerSharper XL



PowerSharper XL Aircon

EG-Pixii PowerSharper XL

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EG-Pixii PowerBase 600kW/614kWh – 900kW/2MWh, LFP

PowerBase - Energy storage for easy site deployment

The EG-Pixii PowerBase is a robust energy storage system built on a steel frame with the length of a standard ISO 20-foot container. Pre-wired and pre-configured, it minimizes installation costs and delivery time, accommodating up to 12 Pixii PowerShaper cabinets.



PowerBase XL/XLP – High-capacity BESS for energy and power demanding sites

The EG-Pixii PowerBase XL/XLP is a 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.



Highlights

- Pre-wired and pre-configured
- Shipped with batteries installed (XL/XLP)
- Safe and stable LFP batteries
- Single lift installation (XL/XLP)
- Dual zone active cooling system (XLP)
- Galvanic isolation (AC-DC)
- European quality & GDPR compliance
- Safe ~48V installation and operation

Key functions

- Grid support (PowerBase)
- Peak shaving
- PV self-consumption (XL)
- Ideal for EV site load support (XLP)
- Balance market participation
- Electricity market participation



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.

Features

- **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.
- **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.
- **Pre-wired, pre-configured**
 - PowerBase - Delivered fully wired and configured with an integrated AC distribution cabinet linking all PowerShaper cabinets. Simplifies installation, speeds deployment, and reduces errors and labor cost significantly.
 - PowerBase XL/XLP - The base is designed for easy deployment. Cabinets can be shipped with batteries installed and come prewired, with a separate AC distribution cabinet to simplify installation and reduce on-site work.
- **Power intense with hybrid cooling (XLP version)**
 - Fully equipped with high-capacity LFP batteries and hybrid cooling. Air-conditioned battery section ensures stable operation in heat-intensive and high-use application.

PMA_EG-Pixii_PowerBase / PMA01250915

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Technical Data Sheet

EG-Pixii PowerBase [kW/kWh]	600/614 PowerBase, LFP	540/1800 PowerBase XL, LFP	900/2000 PowerBase XLP, LFP
AC SPECIFICATIONS			
Grid connection type	TT / TN		
Phase configuration (grid) ¹⁾	3ph		
AC voltage	400 V		
Nominal AC voltage range	207–260 V		-
Nominal Frequency (grid)	50 Hz		
Nominal AC current	864 Arms (3Ph+N+PE)	778 Arms (3Ph+N+PE)	1566 Arms (3Ph+N+PE)
Max. AC current (input)	996 Arms (3Ph+N+PE)	896 Arms (3Ph+N+PE)	1791 Arms (3Ph+N+PE)
Nominal cont. AC power (±2%)	600kW	540kW	900kW
Max. AC power (±2%)	600kWp	540kWp	-
Max. apparent power	600kVA	540kVA	900kVA
Max. reactive power	540kVAr	486kVAr	833kVAr
Power factor (Cos φ leading)	0.5 - 1		
Power factor (Cos φ lagging)	0.5 - 1		
THDi (grid connection)	5%		<5%
Off-grid operation support	No		
Generator backup support	No		
DC SPECIFICATIONS			
Installed capacity	614.4 kWh	1806.3 kWh	2025.7 kWh
Usable capacity	491.5 kWh	1625.7 kWh	1823.1 kWh
Max. system capacity	614 kWh	1806 kWh	2025.7 kWh
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	50kA		
Min. required SC current	2kA		
OPERATING CONDITIONS			
Operating environment	Outdoor		
Thermal management	Fan, Heater	Fan, Heater, Aircon	
Operating amb. temp. range ²⁾	-20 - +45°C		-20 - +55°C
Operating relative humidity	5-95 % non-condensing		
Max. operating altitude	2000 m		
PHYSICAL SPECIFICATIONS			
Dimensions (HxWxD) [mm]	2349 x 6058 x 2338	2544 x 6360 x 2420	2528 x 6334 x 2380
Net weight (cabinet only) [kg]	4450	6916	7972
Net weight (equipped) ³⁾ [kg]	9850	22360	24262
Color	RAL 7035		
Status indicator (type)	-		
Installed / Max. batteries (3U)	120 / 120	126 / 126	126 / 126
Installed / Max. PixiiBoxes	180 / 180	162 / 162	270 / 324

Notes: 1) 3-phase connection requires at least 3 PixiiBoxes, one for each phase.

2) Derating from 45°C.

3) Includes PixiiBoxes and batteries.

EG-Pixii PowerBase

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EG-Pixii PowerBase [kW/kWh]	600/614 PowerBase, LFP	540/1800 PowerBase XL, LFP	900/2000 PowerBase XLP, LFP
BATTERY			
Battery ID	LFP 100Ah 16S 3U 19in A	LFP 280Ah 16S 5U 19in A	LFP 165Ah 16S 5U 19in A
Battery chemistry	LFP (LiFePo)		
Cells in series	16		
Battery block capacity [Ah/kWh]	100 / 5.12	280 / 14.34	314 / 16.08
Max. depth of discharge (DoD)	80%	90%	
Max. charge/discharge current [A]	100 / 100	140 / 140	157 / 157
Max. C-rate	1C	0.5C	
Rack height (units)	3U	5U	
Over-current protection	Breakers, Electronic		
Dimensions (HxWxD) [mm]	133 x 442 x 440	219.5 x 440 x 780	
Net weight (battery block) [kg]	42	120	125
Battery connection type	Screw	Quick	
Cycle life (cycles @%DoD) ⁴⁾	4000 (80%)	7600 (90%)	
REGULATIONS			
Security and safety	RED (2014/53/EU)		
EMC standards	IEC/EN 61000-6-2, IEC/EN 61000-6-4		
Environmental 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)		
Battery standards	IEC/EN 62619, UN38.3		

Notes: 4) Temp. 25±5°C and C-rate:0.5C, EOL:70% SoH.

Specifications subject to change without notice.



12x PowerSharper cabinets
with 50kW power and 50kWh
capacity per cabinet



9x PowerSharper XL cabinets
with 60kW power and 200kWh
capacity



9x PowerSharper XLP cabinets
with 100kW power and 225kWh
capacity

EG-Pixii PowerBase

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EG-Pixii PowerSharper XLP 100kW/225kWh, LFP

For energy and power demanding applications

Designed for energy and power-oriented applications. Ideal for optimizing energy use through PV self-consumption, peak shaving and demand charge reduction, saving operational costs and meeting green targets.

Highlights

- Shipped with batteries installed
- Dual zone active cooling system
- Modular and scalable
- 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



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.

Features

- **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.
- **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.
- **Pre-wired, pre-configured**
 - EG-PowerShaper XLP is based on Pixii's modular system architecture. Delivered pre-wired and pre-configured with Pixii Gateway included. Batteries can be delivered pre-installed to easy deployment.
- **Power intense with hybrid cooling**
 - Fully equipped with LFP batteries and hybrid cooling. Stores more than four times the energy and delivers over twice the power of the traditional PowerShaper. Built for intensive use.



Can be delivered prewired on a transport-ready skid with AC connection cabinet.

PMA_EG-Pixii_PowerSharperXLP / PMA01250915

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Technical Data Sheet

EG-Pixii PowerSharper XLP [kW/kWh]	100/225 Multi-cooling, LFP
AC SPECIFICATIONS	
Grid connection type	TT / TN
Phase configuration (grid)	3ph
AC voltage (-10/+15%)	400 V
Nominal Frequency (grid)	50 Hz
Nominal AC current	174 Arms (3Ph+N+PE)
Max. AC current (input)	199 Arms (3Ph+N+PE)
Nominal cont. AC power ($\pm 2\%$)	100kW
Max. apparent power	100kVA
Max. reactive power	92kVAr
Power factor (Cos ϕ leading)	0.5 - 1
Power factor (Cos ϕ lagging)	0.5 - 1
THDi (grid connection)	<5%
Off-grid operation support	No
Generator backup support	No
DC SPECIFICATIONS	
Installed capacity (max)	225.1 kWh
Usable capacity (max)	202.6 kWh
Max. system capacity	225.1 kWh
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 ¹⁾	Fan, Heater, Aircon
Operating amb. temp. range ²⁾	-20 - +55°C
Operating relative humidity	5-95 % non-condensing
Max. operating altitude	2000 m
PHYSICAL SPECIFICATIONS	
Dimensions (HxWxD) [mm]	2324 x 1194 x 1320
Net weight (cabinet only) [kg]	618
Net weight (equipped) ³⁾ [kg]	2428
Color	RAL 7035
Status indicator (type)	-
Installed / Max. batteries (5U)	14 / 14
Installed / Max. PixiiBoxes	30 / 36

Notes: 1) Battery section is cooled via active air-conditioning, while the power conversion compartment is fan cooled.
 2) Derating from 45°C.
 3) Includes PixiiBoxes and batteries.

EG-Pixii PowerSharper XLP

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EG-Pixii PowerSharper XLP [kW/kWh]	100/225 Multi-cooling, LFP
BATTERY	
Battery ID	LFP 314Ah 16S 5U 19in A
Battery chemistry	LFP (LiFePo)
Cells in series	16
Battery block capacity [Ah/kWh]	314 / 16.08
Max. depth of discharge (DoD)	90%
Max. charge/discharge current [A]	157 / 157
Max. C-rate	0.5C
Rack height (units)	5U
Over-current protection	Breakers, Electronic
Dimensions (HxWxD) [mm]	219.5 x 440 x 780
Net weight (battery block) [kg]	125
Battery connection type	Quick
Cycle life (cycles @%DoD) ⁴⁾	7600 (90%)
REGULATIONS	
Security and safety	IEC/EN 62040-1, IEC/EN 62109-1, IEC/EN 62109-2, IEC/EN 62477-1, RED (2014/53/EU)
EMC standards	IEC/EN 61000-6-1, IEC/EN 61000-6-2, IEC/EN 61000-6-3, IEC/EN 61000-6-4
Environmental 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)
Battery standards	IEC/EN 62619, UL1973, UL9540A, UN38.3

Notes: 4) Temp. 25±5°C and C-rate:0.5C, EOL:70% SoH.

Specifications subject to change without notice.

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