



# Pixii Home

10kW/10kWh/15kWp (PV), Hybrid, Fan-filter, LFP



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.

## Residential storage, industrial-grade quality

Pixii Home is a smart and reliable battery, 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.

### 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.

### Hybrid performance

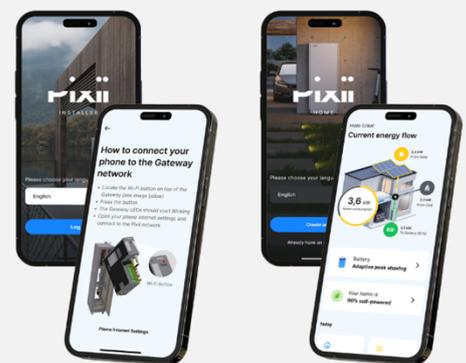
The Hybrid model features 3 MPP trackers for up to 15 kWp of PV power and 10 kW bi-directional AC power for efficient grid interaction. It comes with 10 kWh battery capacity, expandable to 20 kWh.

## Highlights

- Supports AC or DC coupled solar
- Start small and grow as you go
- Operates at temp. down to -40°
- 10 years or 10 000 cycles warranty\*
- European quality & GDPR compliance
- Safe ~48V installation and operation

## Key functions

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



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

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AC specifications	
Grid connection type	IT / TT / TN
Phase config. (grid) <sup>1</sup>	1ph / 3ph
AC voltage (-10/+15%)	230V / 400V
Nominal AC voltage range	207 - 260V
Nominal frequency (grid)	50Hz
Nominal AC current	14.4Arms (3Ph+N+PE)
Max. AC current (input)	16.6Arms (3Ph+N+PE)
Nom. cont. AC power (±2%)	10kW
Max. AC power (±2%)	10kWp
Max. apparent power	20kVA
Max. reactive power	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 <sup>2</sup>	Yes
Generator backup support <sup>3</sup>	Yes
Phase config. (genset)	1ph
Frequency range (genset)	45 - 66Hz

1. A 3-phase connection requires at least three PixiiBoxes, one for each phase.

2. Single cabinet only. Requires off-grid box. Local modification for load prioritization.

3. Single cabinet only.

DC specifications	
Installed capacity (max)	10.2kWh
Usable capacity (max)	8.2kWh
Max. system capacity	20.5kWh
Nominal DC voltage	~48V

PV input specifications (MPPT)	
Installed no. of MPPTs	3
Max. MPPT capacity	3
PV strings per MPPT	1
DC input voltage range	100 - 380V
Max. DC input voltage	420V
Max. input current per MPPT	16A
Max. PV peak power	15kWp
Max. PV peak power per MPPT	5kWp

Efficiency	
Max. efficiency (inverter)	96.9%
Max. efficiency (MPPT)	97.4%
Weighted Euro efficiency (MPPT)	96.6%

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
Max. SC current per MPPT	15A
Min. required SC current	0.5kA

Operating conditions	
Operating environment	Outdoor
Thermal management	Fan, Heater
Acoustic noise 1m distance	<60dB(A)
Operating amb. temp. range <sup>1</sup>	-40 - +45°C
Operating relative humidity <sup>2</sup>	5 - 95% NC
Max. operating altitude	2000m

1. Battery startup below 0°C may require internal heating and AC power, please refer to the "Temperature Table" in the Pixii Home guides. Derating from 45 °C  
2. Non-condensing.

Physical specifications	
Dimensions (HxWxD)(mm)	1717x684x387
Net. weight (cabinet only)	84kg
Net weight (equipped) <sup>1</sup>	180kg
Color	RAL 9006
Status indicator (type)	LED
Installed batteries (3U)	2
Max. batt. capacity (3U)	4
Installed PixiiBoxes	6
Max. PixiiBox capacity	6

1. Includes PixiiBoxes and batteries.

Battery	
Battery ID	LFP 100Ah 16S 3U 19in S
Battery chemistry	LFP
Cells in series (qty)	16
Battery block capacity (Ah)	100Ah
Battery block capacity (kWh)	5.12kWh
Max. depth of disch. (DoD)	80%
Max. charge/discharge cur.	100/100A
Max. C-rate	1C
Rack height (Units)	3U
Over-current protection	Breakers, Electronic
Dimensions (HxWxD)(mm)	133x442x440
Net. weight (battery block)	42kg
Battery connection type	Screw

## Warranty and compliance

### Security and safety standards

IEC/EN 62040-1, IEC/EN 62109-1, IEC/EN 62109-2, IEC/EN 62477-1, RED (2014/53/EU) - Cybersecurity (effective Aug 2025)

### Grid standards<sup>1</sup>

EREC G99 (Type A) (UK), IEC/EN 50549-1 (Type A) (EU), TF 3.3.1 (Type A) (NO), VDE-AR-N 4105 (DE), Wymogi ogólnego stosowania (Type A) (PL)

### EMC standards

IEC/EN 61000-3-2, IEC/EN 61000-3-3, IEC/EN 61000-6-1, IEC/EN 61000-6-3

### Environment standards

ETSI EN 300 019-2-3 (Class 3.2), IEC/EN 63000 (RoHS)

### Battery standards

IEC/EN 62619, UN38.3

<b>Warranty (years/cycles)<sup>2</sup></b>	10/10000
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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. EREC G99 (Type A) and VDE-AR-N 4105 currently valid for PixiiBox. System approval pending.

2. Whichever comes first. EoL defined as ≥70% SoH. See [warranty document](#) for details.