



Pixii Home

10kW/20kWh/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

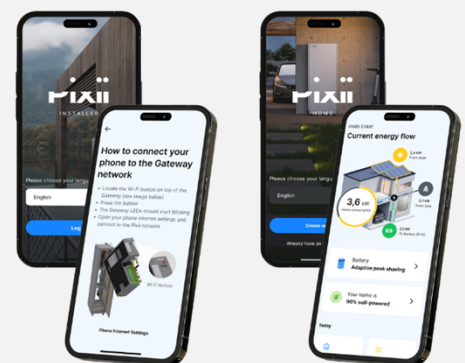
The Hybrid model features 3 MPP trackers for up to 15kWp of PV power and 10kW bi-directional AC power for efficient grid interaction. Fully equipped with 20kWh battery capacity.

Highlights

- Supports AC or DC coupled solar
- Fully equipped with 20kWh capacity
- 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) ¹	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 ²	Yes
Generator backup support ³	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)	20.5kWh
Usable capacity (max)	16.4kWh
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 ¹	-40 - +45°C
Operating relative humidity ²	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) ¹	264kg
Color	RAL 9006
Status indicator (type)	LED
Installed batteries (3U)	4
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 ¹
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	
Warranty (years/cycles) ²	10/10000

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.