



# Pixiihome

Modular Energy Storage - Flexibility made simple

## SMART ENERGY STORAGE

Get more out of your solar investment and optimize your energy consumption with our compact and smart energy storage solution, allowing you to store excess solar power and to charge your batteries when electricity costs are low - for later use.

PIXII home comes with a smart home hub that controls energy hungry heating and cooling equipment in your house and align the consumption with your battery storage and fluctuating energy prices.

The Pixii home is a compact, all-in-one solution, saving you cost and reducing your dependency on the grid. It operates with all new or existing solar installations, allowing you to store excess energy for later use. You can also set it to store energy from the grid when the cost is low - to consume it when the cost is high. And you can even cut your service fee to your grid supplier by shaving off the peaks of your power consumption.

Be energy independent.

## PIXIIBOX INSIDE

# The modular energy storage

The PixiiBox is a software defined platform that can be different power conversion products depending on the software activated. Besides being a bi-directional inverter, it can also be a solar MPPT converter - making the PixiiHome a fully integrated hybrid system.

PixiiBox is a fully bi-directional energy conversion module for energy storage systems. Operating as a rectifier, it can charge and maintain several battery technologies. Reversing the energy flow, operating as a grid tied inverter, it can feed energy back to the grid in accordance with applicable grid standards.



The PixiiBox can, based on its location in the system be a bi-directional inverter, a MPPT solar converter, an inverter for critical loads or even a rectifier for additional AC inputs.

Pixii Home is compatible with a wide range of LFP battery brands and technologies. With LFP batteries you have the highest level of safety, with the lowest level of cobalt or nickel, making it the more environmentally friendly option.



The modular design of the Pixii Home Energy Storage is the result of decades of research and development in state-of-the-art power conversion technology.

Our engineering team have created a converter that have multiple functions, aligned with the changing needs of households that embrace the green change.

Pixii Home allows you to add more capacity and new functions as your energy need changes. Scale your system with hot pluggable batteries and converter modules. The PixiiBox opens the door to unprecedented flexibility in energy storage for the residential market with its modularity.

You can even use your electric car or any AC source as additional backup for your home.

The PixiiBox can provide different functions depending on the location in the system, allowing you to assign different task to the module as your energy need and energy infrastructure changes over time. - Flexibility made simple

## PixiiBox - Key features

- Multi-functional (Inverter, rectifier, MPPT)
- Grid tied
- Hot pluggable
- High efficiency
- Compact

## Batteries - Key features

- Lithium-ion battery technology
- Robust and smart
- High efficiency
- Compact
- Long cycle life
- Multiple safety measures

## OUR HERITAGE

# Nordic design and innovation

The simplicity of our design comes from our Nordic roots, blending perfectly into the modern home, with an installation time of less than 40 minutes. The Pixii home is compact and can be fitted with up to 20kWh in steps of 5kWh

Energy storage does not have to be bulky. In Pixii we pay attention to every little detail in our design, working towards a minimalistic aesthetic where the shape and the materials speak a simple language. You will probably not install your energy storage in the living room, but that does not mean that it should not look good in your garage or attached to your house.

The Pixii home is a compact, all-in-one solution, saving you cost and reducing your dependency of the grid. It connects with all new or existing solar installation, allowing you to store excess energy for later use.

It also stores energy from the grid when the cost is low to use when the cost is high. And you can even cut your service fee to your grid supplier by shaving off the peaks of your power consumption.

Pixii Home is powerful innovation inside a functional and clean exterior design, controlled and monitored by a user-friendly App.

Take control of your power bill



## Pixii Connect

Pixii Connect allows for easy installation and configuration, making your handover effortless.

The app guides you through a step-by-step process, to tailor the Pixii Home specifically to your client's needs, before transferring the configuration to your client's smart phone through the Pixii cloud services.

Pixii cloud dashboard allows you to offer remote monitoring to manage state of charge, alarms, functionality and more.

All necessary information related to installation, operation and maintenance is readily available on our website, allowing you to easily manage and maintain Pixii Home.

And if needed, we offer local support agreements in selected countries, ensuring both installers and their customers get the best user experience.

The Pixii Connect app is a time saver, giving you the confidence of an installation well done.

## Pixii Home App

Energy management does not need to be complex. With ever increasing energy costs, you need a user-friendly app to manage your power consumption.

You can monitor your consumption and understand how your PV installation contributes to your total consumption. Check the status of your batteries and understand how and why your power consumption changes over time through historic data view.

The Pixii app allows you to monitor and manage your power consumption by adding automation and behavior-driven energy saving services to your home.

Optimize how you store and use energy with smart functions like peak shaving, arbitrage, and PV self-consumption, effectively reducing your power bill.

With the included Pixii smart home hub, you can even take control of a wide range of smart home devices. Use the app to control floor heating, water heater, panel heaters and other power hungry appliances.

Create a rule in the app, ensuring your power-hungry devices automatically turn off, in priority order, so you always stay within your peak power limits. Or use motion sensors to automatically turn on the lights as you enter a room.

The Pixii Home App allows you to get the most out of your Pixii Home, lowering your energy consumption without reducing comfort.



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# 48V

Safe installation

# 10

Years warranty



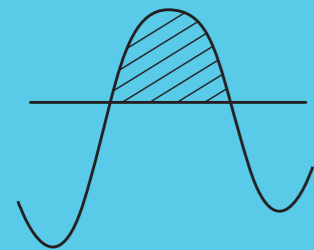
## PV Self consumption

Get the most out of your solar investment and reduce your dependency on the grid through smart power management, enabling you to re-direct excess power generation to batteries for later use during peak hours.



## Smart Home Hub

The Pixii Smart Home Hub opens the door to maximize your saving potential even further. Create time schedules that are aligned with your energy storage. Consume electricity when tariffs are low or your battery are full.



## Peak Shaving

Reduce your demand charge and save cost by shifting your power dependency from grid to battery, shaving the peaks off your power consumption.

# Modular

Grow as you go with the possibility to scale your system when you need more capacity. Both batteries and the inverter can cater for various future needs regardless if you want to increase your PV system, or store more energy from the grid when the tariffs are low.



## Arbitrage

Support loads from battery when electricity rates are high, and charge battery when electricity rates are low.

## Highlights

- Multi-functional software driven converters
- 48Vdc for safe installation and maintenance
- Pixii Smart Home Hub built-in
- 100% capacity guarantee for the first 10 years or XXXXX cycles
- Triple level safety protection with battery fuse and battery breaker
- LFP batteries with safe battery chemistry, Compatible with many battery brands
- Plug and play cloud service installation
- Easy installation and handover
- Optional AC input for additional energy sources (Generator)
- EV to home as standard\*
- Operates with existing solar and integrated hybrid solar during power outages
- Multiple safety measures to comply with applicable international standards, IP55
- Extensive documentation like installation manuals and installation videos in several languages
- Local support agreements available in Germany and Norway

\*) Through vehicle to load adapter

# Pixiihome

Modular battery energy storage from 9 to 18 kW

Performance data		Performance data	
Max power (bi-directional)	Up to 10 kW	Minimum operating temperature	5 °C
Nominal AC voltage	230/400 Vac	Dimensions (w x d x h)	600 x 130 x 1300 mm
Frequency	50 Hz	Weight (fully equipped)	110 kg
Battery chemistry	LFP	Cabinet protection class	IP 55
Number of cycles (80% DoD)	>4000	Communications protocols	M-bus, Modbus RTU, TCP/IP Ethernet, 4G, Wi-Fi
Nominal battery voltage	48VDC		
Maximum operating temperature	50 °C		

Functions	
Pixii Connect App	Plug and play cloud service installation
Pixii Smart Home App	Simple and user-friendly app with extended energy management features including monitoring, management and control.
Peak shaving	Reduce your demand charge and save cost by shifting your power dependency from grid to battery, shaving the peaks off your power consumption.
Arbitrage	Support loads from battery when electricity rates are high, and charge battery when electricity rates are low.
PV self-consumption	Get the most out of your solar investment and reduce your dependency on the grid through smart power management, enabling you to re-direct excess power generation to batteries for later use during peak hours.
Back-up power	Protect your network against power cuts with our smart battery storage system kicking in to ensure uninterrupted power supply.
Flexibility markets	Unlock the value of your battery energy storage system and monetize your system's flexibility by selling stored energy or providing ancillary services, such as frequency regulation, to the electricity grid.
AC coupled solar	Cut energy costs and reduce your carbon footprint by adding smart energy storage to your solar plant. Our technology works with all PV inverters, both new and old, giving you the freedom of choice.
Smart Home Hub	Control your power hungry equipment to consume power when the cost tariffs are low and schedule heating or cooling of your home when you are not at home.

Application standards	
Safety	IEC/EN 62109-1, IEC/EN 62109-2, IEC/EN 62040-1, IEC/EN 62477, (Batteries) IEC 62619, IEC 62368, UN38.3
Grid	AS/NZS 4777-2, VDE-AR-N 4105, 50549-1, TF 3.3.3 B1, EREC G99 (others pending)
EMC	IEC/EN 61000-6-1, IEC/EN 61000-6-2, IEC/EN 61000-6-3, IEC/EN 61000-6-4
Environment	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)