

## SHAPING THE POWER OF THE FUTURE

At Pixii we are experts in power conversion and energy storage. Our competence is built over decades of experience in design, manufacturing and sales of modular power conversion solutions, bringing a new level of flexibility to energy storage solutions. Pixii is headquartered in Norway and have a global reach through partners.



PIXII POWER SHAPER 30kW/65kWh energy storage system

### MODULAR ENERGY STORAGE SYSTEM

The energy storage solutions from Pixii are based on fully bi-directional power converters which can be connected in parallel to match power requirements from 3—120kW. In addition, the modularity provides an unmatched serviceability and reliability. For additional capacity, systems can be added in parallel.

The brain and communication center in the system is an interoperable gateway communicating with all elements within the system as well as the outside world for system monitoring and advanced control, enabling both local flexibility as well as the opportunity for coordinated and flexible fleet capacity.

### BENEFITS OF A MODULAR ENERGY STORAGE SYSTEM FROM PIXII

#### FUNCTIONALITY:

With one standardized system, you can

- Obtain the power (kW) and energy (kWh) capacity you need, by adding the required number of systems and scale each of them
- Enable and configure the energy storage functions relevant for your needs
- Easily upgrade capacity or functions

#### IMPACT:

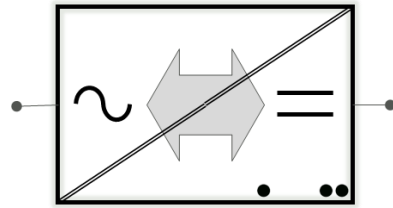
- Reduces your electricity bill
- Shave or shift power peaks
- Provides power back-up
- Enhances grid power quality
- Provides ancillary grid services



A power shelf with 3 x 3,3kW bidirectional Pixii modules

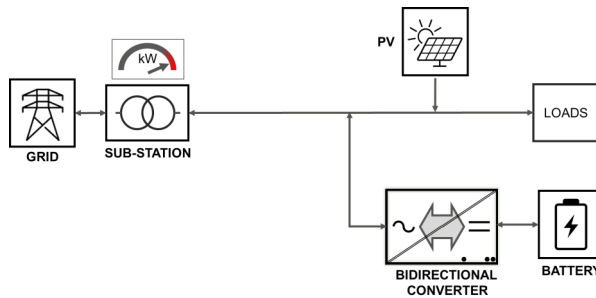


## THE PIXII BIDIRECTIONAL POWER CONVERTER



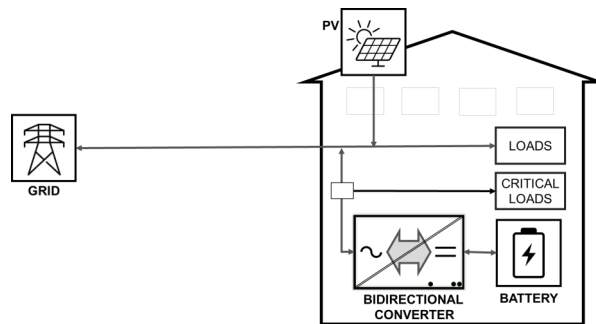
The core building block in the Pixii energy storage systems is the bidirectional power converter, a galvanically isolated 3,3kW fully bidirectional “rectifier/inverter”. On the DC side the output is a stable DC providing controlled charging and maintenance of a variety of battery chemistries managed from the system gateway. On the AC side the module is designed to feed energy back to the grid according to international and national standards and grid codes.

### APPLICATION AREAS:



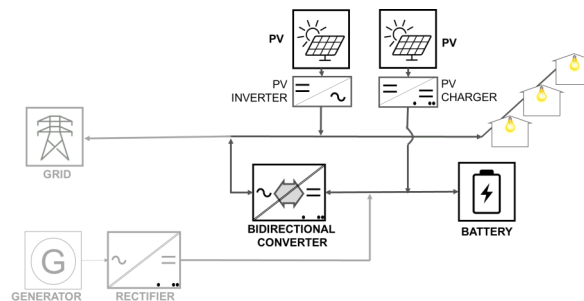
#### Distribution grids:

- Enhanced power capacity during peak loads.
- Enhanced power quality through voltage support and phase balancing, reactive power compensation and frequency support
- Fleet management to consolidate capacity from several systems



#### Commercial and industrial facilities:

- Demand charge reduction
- Time-of-use charge reduction
- Sale of demand response and flexibility
- Increased self-consumption of PV
- Back-up power for critical loads
- Increased power-peak capacity



#### Mini/Micro-grids:

- Clean energy for off grid areas
- Reduce electricity cost and dependency on diesel or grid
- Enhanced power availability in “poor-grid” areas

### Are you considering energy storage?

Do not hesitate to contact us. Our experts are looking forward to a dialogue to find the optimal solution for your requirement. Please send us an e-mail to the address below.

KRISTIANSAND OFFICE:  
Andøyfaret 33  
4623 Kristiansand  
Norway

[www.pixii.com](http://www.pixii.com)  
[post@pixii.com](mailto:post@pixii.com)

SANDVIKA OFFICE  
Malmskriverveien 35  
1337 Sandvika,  
Norway

