

Pixii Power Base XL



Flexible grid tied energy storage system

The Power Base is a complete energy storage system on a steel frame. It can include up to 9 PowerShaper XL cabinets with a maximum capacity up to 530kW and 1,8 MWh.

The PowerShaper XL is designed for 14,3 kWh LFP batteries to provide an optimal solution for energy density and cost efficiency. The cabinet is designed for transport with batteries installed for minimum battery handling and installation work at site. The PowerBase comes pre-configured from the factory. The AC distribution cabinet is also installed with all internal wiring to all PowerShaper XL cabinets. The PowerBase XL can be placed directly on a level ground or on 8 solid resting points.

This reduces on site preparations, civil work and installation work significantly and also makes the PowerBaseXL a "semi-mobile" unit as it can be transported with batteries installed.



Highlights

- Modular and scalable
- Compact energy storage
- Fast response (charge to discharge)
- Integrated & battery inverter solution
- Wide range of functions
- Galvanically isolated AC to DC
- 48V battery voltage for ease of service

Capacity

Maximum number of batteries	126
Maximum number of PixiiBox'es	162
Maximum storage capacity	1,8MWh
Maximum power capacity	530kW

← Pixii PowerShaper XL, single cabinet (60kW/200kwh)

PixiiPowerBase XL

Flexible grid tied energy storage system up to 530kW / 1800kWh

Performance data		Performance data	
Max Power (bi-directional)	Up to 530kW / 1,8MW	Minimum operating temperature	-20 °C
Nominal AC voltage	400VAC	Maximum operating temperature	45 °C
Frequency	50Hz	Dimensions (w x d x h)	6340 x 2380 x 2477 mm
Max AC current (60kW)	864A	Weight (fully equipped)	22 tons
Nominal DC voltage	48Vdc	Cabinet protection class	IP 55
Max DC current per cabinet (60kW)	1350A	Noise in 10m distance	<55 dB(A)
Communications protocols	MQTT, Modbus TCP, 4G, Wi-Fi +	Environmental management	Fan Cooled (Aircon Optional)

Functions

Voltage support	Monitor and maintain ideal line voltage in remote locations at low cost, by using our power management and storage solution as a buffer, enabling you to inject and absorb active/reactive power to and from the grid.
Peak shaving	Reduce your demand charges and save cost by shifting your power dependency from grid to battery, shaving the peaks of your power consumption. It also allows you to boost available power without having to upgrade your grid connection.
Grid support	Improve local peak power capacity by increasing maximum power capacity through smart energy storage systems. In locations with temporary overloads, energy storage systems can be installed to cover the overload to avoid having to upgrade larger parts of the grid.
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.
Ancillary services	Unlock the value of your energy storage system through frequency stabilising ancillary or balance services like , FFR, FCR-D up an/or down, FCR-N, FCAS etc.

Applicable standards

Safety	IEC/EN 62109-1, IEC/EN 62109-2, IEC/EN 62040-1, IEC/EN 62477, (Batteries) IEC 62619, IEC 62368, UN38.3, RPEQ Mechanically certified for lifting, Load Restraint Guide 2018 for Transportation
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)