



# PowerShaper XL

kW/321kWh, LFP



Save costs through battery services like peak shaving, arbitrage and PV self-consumption



Generate income from renting out battery capacity to help support your local grid, through virtual power plants

#### 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 alwayson 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.

With access to performance stats, historical data, and alarms, you have a complete overview of all your sites in real time.

#### 288kW battery capacity

Consisting of two battery cabinets and one cabinet with bi-directional inverter modules, the system offers up to 50kW inverter capacity and 288kWh storage.

## Highlights

- Shipped with batteries installed
- Safe and stable LFP batteries
- Works with most PV installations
- For energy oriented applications
- Safe ~48V installation and operation

## Key functions

- PV self-consumption
- Peak shaving
- PV self-consumption
- EV charging



Can be delivered on a 20-foot base, prewired with AC connection cabinet

# PowerShaper XL kW/321kWh, LFP

AC specifications	
Nominal AC voltage	400V
Nominal frequency (grid)	50Hz
Nominal AC current	72Arms (3Ph+N+PE)
Max. AC current (input)	80Arms (3Ph+N+PE)
Max. AC power (±2%)	51.2kWp
Off-grid operation support	No
Generator backup support	No

DC specifications	
Installed capacity	321.5kWh
Usable capacity	289.4kWh
Max. system capacity	50kWh
Nominal DC voltage	~48V

Efficiency				
Max. efficiency (MPP)	Γ)	98.0%		
Weighted Euro efficiency (MPPT)		96.5%		
Communication and connectivity				
Wireless interfaces		Wi-Fi hotspot (local AP), 4G (optional kit)		
External comm. protocols	MQTT, Modbus			
Safety				
Ingress Protection (IP	)	IP20		
Operating conditions				
Operating environme	nt	Vnútorný		
Thermal managemen	t	Fan		
Operating amb. temp	. range	0 - +45°C		
Operating relative hu	midity	5 - 95% NC		
Max. operating altitud	de	2000m		

Max. batt. capacity (5U)

Max. PixiiBox capacity

Installed PixiiBoxes

		Net. weight (battery block)	125kg
Operating amb. temp. range	0 - +45°C	Net. Weight (Dattery block)	123kg
Operating relative humidity	5 - 95% NC	Battery connection type	Quick
. 3		Cycle life (cycles @%DoD) 1	7600 (90%)
Max. operating altitude	2000m		, ,
		Warranty and compliance	
Physical specifications		Warrancy and compliance	
Dimensions (HxWxD)(mm)	2000x600x850	Battery standards IEC/EN 62619, UL1973, UL9540	A, UN38.3
	2000x600x850 RAL 7035	•	A, UN38.3
Dimensions (HxWxD)(mm) Color		•	A, UN38.3
Dimensions (HxWxD)(mm)		IEC/EN 62619, UL1973, UL9540	•

20

0

3

Battery

Battery ID

Max. C-rate

Rack height (Units)

Over-current protection

Dimensions (HxWxD)(mm)

Battery chemistry Cells in series (qty)

Battery block capacity (Ah) Battery block capacity (kWh)

Max. depth of disch. (DoD)

Max. charge/discharge cur.

LFP 314Ah 16S

5U 19in A LFP

16.08kWh

157/157A

Breakers, Electronic 219.5x440x780

0.5C

5U

16 314Ah