



**Energy Storage Systems
BROCHURE 2025**



**Sustainable Power.
Anywhere.**



About us

Xerogrid began in 2008 when Managing Director, Ian, started offering off-grid systems in rural Spain to help clients avoid connection headaches for new solar systems.

Back in the UK, he found the same issues with connecting to the network.

For example, he saved a Yorkshire farmer from a £68,000 grid upgrade fee with a £30,000 energy storage system.

Since then, Xerogrid has gone from strength to strength, helping a variety of industries across the UK, Europe and Africa to break free from grid costs and increase renewables yields.

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Benefits

Available in the form of integrated G99 type-tested battery stacks, with integrated renewable energy conversion and intelligent control technology.

Bespoke system configuration allows renewable energy storage

for a reliable source of clean, efficient energy

The solution integrates seamlessly with backup generators to provide the ultimate uninterrupted power supply (UPS).





Peak Shaving
& Supply
Upgrade



Renewables
Integration



Backup
System



Grid-Tied or
Off-Grid



Bespoke
Monitoring &
Management



UK Assembly
& Support



Partners

Xerogrid are the official PylonTech UK technical partners for the PowerCube and OptimUS energy storage systems.

We have over a decade of experience and pride ourselves on delivering solar PV and battery solutions for unusual and technically-challenging projects.

We are proud to collaborate with PylonTech and Hark Systems (a SolarEdge company) to introduce the first UK-assembled containerised storage solution with energy management software developed in Leeds.

Thanks to this team of experts, we now have a crucial and integrated system for whole-site assets.



Hark Integrated System Control

Our UK-designed, whole-site energy management and control software ensures that your whole site's performance is fully optimised, reducing energy costs and increasing asset performance.

The software has been developed in a unique collaboration between Xerogrid and Hark systems, a globally-recognised IoT energy software company.

All our energy storage systems come pre-engineered with this system from day one, to create a best-in-class solution.

Xerogrid offer comprehensive asset management agreements to take the commissioning, monitoring and control burden away from you.



- Simple mobile and web access across all your devices
- Individual load profile and control
- Integrate generators and multiple renewables sources into one ecosystem
- Set up complex operation profiles easily, for impressive system automation
- Configure without prior programming knowledge
- Detailed data analysis tools

Which system do I need?

OptimUS

The OptimUS is the ideal plug and play high voltage storage solution for SMEs, agriculture, holiday parks and off-grid settings.

Two units can be paralleled together for double the capacity and discharge rate.



50 – 100 kW



100 – 300 kWh



Up to
2080*1480*2200



Solar Integration



PowerCube

The PowerCube is the solution to choose for large C&I settings, where power and energy demand are particularly high.

It provides an impressive amount of storage and discharge capacity in a surprisingly space-efficient package.

Choose the PowerCube as a sustainable solution to cost-prohibitive grid expansion, connections applications and fluctuating energy prices.



500 kW – 1 MW



1 – 2 MWh



Up to 20 ft
Container



Whole-Site
Integration



OptimUS Hybrid 50 kW– 100 kWh

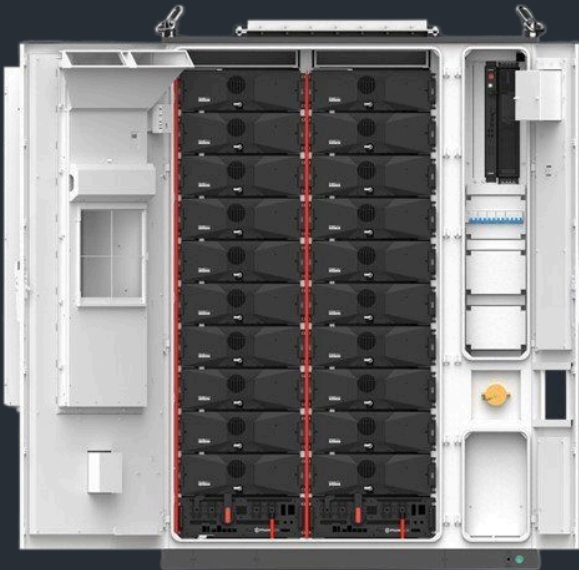
- 100 kWh capacity
- 50 kW discharge power
- Fully UK type-tested Solinteg 50 kW hybrid inverter included
- 0.5C continuous discharge rate
- 95% depth of discharge
- 96% round-trip efficiency at 0.5C discharge
- Dimensions (W*D*H): 1920 *1110*2185 mm

OptimUS Hybrid 100 kW– 300 kWh

- 300 kWh capacity
- 100 kW discharge power
- 2 x fully UK type-tested Solinteg 50 kW hybrid inverters included
- 0.5C continuous discharge rate
- 95% depth of discharge
- 96% round-trip efficiency at 0.5C discharge
- Dimensions (W*D*H): 2080*1480*2200 mm

OptimUS Hybrid 100 kW- 200 kWh

- 200 kWh capacity
- 100 kW discharge power
- 2 x fully UK type-tested Solinteg 50 kW hybrid inverters included
- 0.5C continuous discharge rate
- 95% depth of discharge
- 96% round-trip efficiency at 0.5C discharge
- Dimensions (W*D*H): 2080 *1480*2200 mm



Hark Software
Available on
all Models



Fully Plug-
and-Play

PowerCube

M5-10FT-HQ

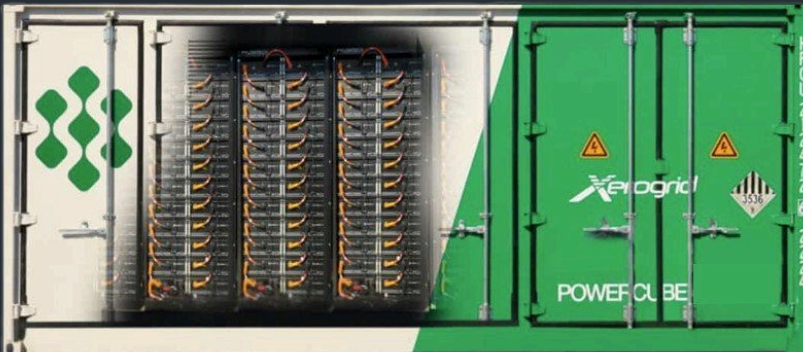
- 1 MWh capacity
- 500 kW discharge power
- Fully UK type-tested PCS
- 0.5C continuous discharge rate
- 95% depth of discharge
- 96% round-trip efficiency at 0.5C discharge
- Standard 10 ft shipping container



Hark Software
Available on
all Models



Expert
Configuration
and Support



M5-20FT-HQ

- 2 MWh capacity
- 1 MW discharge power
- Fully UK type-tested PCS
- 0.5C continuous discharge rate
- 95% depth of discharge
- 96% round-trip efficiency at 0.5C discharge
- Standard 20 ft shipping container

M5-20FT-GP

- 3 MWh capacity
- Battery-only (AC equipment sold separately)
- 0.5C continuous discharge rate
- 95% depth of discharge
- 96% round-trip efficiency at 0.5C discharge
- Standard 20 ft shipping container

Case Study

The Moody Cow is a 100-acre, family run eco tourism site in Wales, costing over £5 million to date.

Employing almost 100 local people, operational electricity costs were approximately £20,000 per month.

Having installed 300 solar panels in 2018, the site's electricity demand still outstripped its supply capacity.

The distribution network operator quotes £150,000 in reinforcement works to support their demand.

Restrictions on connecting solar power and exporting to the grid, along with rising electricity prices, led to the owners seeking another solution.





“PowerCubes, solar panels and generators are big investments, but we're prepared to invest and have more control to know what our ongoing costs are. With the rising electricity costs we've seen, we expect to recoup our costs back in 18 months.”

The Xerogrid PowerCube provided this solution, by posing as a barrier between the demand and the grid, to provide increased power when required and then charge back up.

It also allowed the installation of additional solar without requiring a grid application and associated costs.

A sustainable and cost effective solution for energy independence!

Next Steps

If you would like to find out more about how our energy storage systems can benefit your site, get in touch today for a no-obligation chat.



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Our standard project process is as follows:



1

Information discussion to determine your project needs

2

Full site survey, load profiles and specification

3

Contracts, deposits and statements of works

4

(if required) DNO and planning approvals

5

Goods import, customs clearance and assembly

6

Installation and site integration

7

Post-installation monitoring and technical support

Terms and Conditions

Delivery Estimates

- 12-16 weeks' custom build and pre-configuration
- 4 weeks' shipping and customs cleared delivery
- Timings can be affected by DNO and planning approval

Pricing

- Pricing subject to change without notice
- All pricing subject to standard VAT (20%)
- 50% deposit payable for initial manufacture slot and to fix exchange rate
- 40% payable to release product for shipping
- 10% payable 14 days after successful commissioning

Support and Maintenance

- Technical support and design provided by Xerogrid Limited prior to installation and 2 months post-installation as standard
- Client is responsible for electrical installation and compliance, unless otherwise is agreed prior
- Client is responsible for using the system within the designed parameters and specifications

Warranties

- 10 years' battery performance warranty for discharge up to 1C and single daily charge/discharge cycle
- 3 years' warranties for the PCS, container and air conditioner
- 1 year's warranty for the fire suppression system





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