

# P WERVAULT





## Powervault: Your Expert Solution for Cheaper, Greener Energy

At Powervault, we are dedicated to transforming your energy usage, helping you lower your electricity bills and minimize your carbon footprint with confidence.

Since our inception in 2014, Powervault has been at the forefront of energy storage technology. Our high-quality, intelligent solar batteries are designed and manufactured in our UK factory. With years of expertise, we ensure our products deliver exceptional performance and industry-leading safety, alongside unparalleled customer support.

Our advanced batteries store excess energy from your solar panels, if you have them, as well as cheaper off-peak energy from the grid. Equipped with our proprietary SMARTSTOR™ AI-enabled software, Powervault optimizes your energy usage in real-time, ensuring that you consistently benefit from the cheapest and most environmentally-friendly energy available.

Choose Powervault for a reliable, hassle-free approach to reducing your energy costs and enhancing your sustainability. With us, you have a trusted partner committed to delivering both peace of mind and superior energy solutions.

POWERSVAULT

**Transform your energy usage, reduce your carbon footprint and save money.  
Be part of the solution to climate change.**



## Why have a solar battery?

Whether you want to save money on your energy bills or shift your usage to greener electricity, solar batteries can support you in your transition.

If you have solar panels, on average 50% of the energy generated is exported to the grid, but with a Powervault you can save your surplus solar for when you need it, reducing your reliance on the grid and generating substantial cost savings.

Solar batteries also enable you to store off-peak grid electricity with a Time-of-Use tariff, which is cost effective with or without solar panels. Homeowners gain greater energy independence, significantly reduce their carbon footprint and support the increased integration of renewables into the National Grid.

LOWER YOUR BILLS

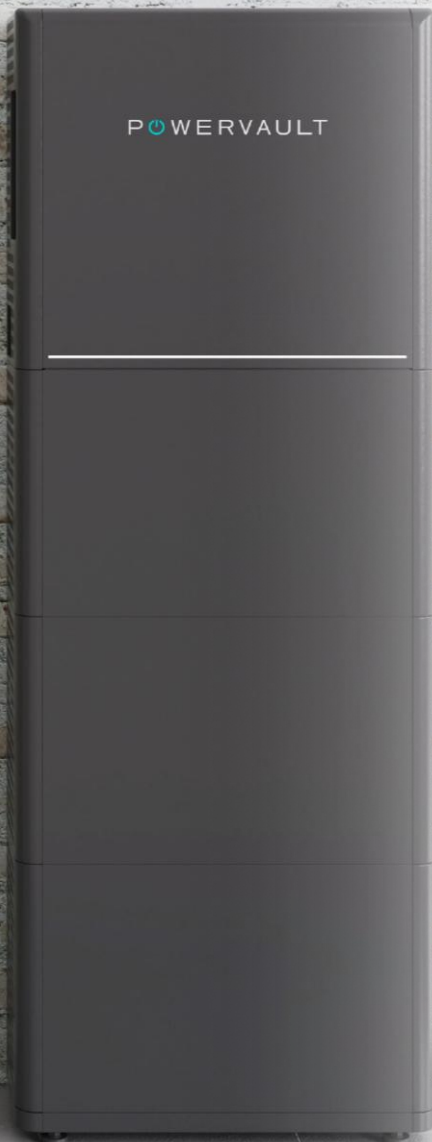
USE GREEN ENERGY

BE PART OF THE SOLUTION

# Introducing the Powervault P5

An essential part of modern smart homes, the Powervault P5 is designed to make the net zero energy transition easy for UK residential premises. The Powervault P5 is – truly – a fully integrated, modular and upgradeable solar and storage device.

The Powervault P5 can be directly connected to solar panels in a new solar and storage installation. It can be fitted to bring a property up-to-date on its own, or when there is an existing renewable energy system on site thanks to its compatibility with all grid-connected solar PV and wind turbines. Retrofitting a Powervault P5 will have no impact on valuable Feed-in-Tariff generation payments.



## How does the P5 work with new solar panels?

The P5 converts energy from your solar panels into electricity that you can use in your home and stores unused solar energy when it is available. The energy stored in the P5 will then be discharged back to the home when needed, saving money. It can also charge from the grid to store cheap off-peak electricity to use at peak hours.

## How does the P5 work as a retrofit?

The P5 can work alongside a pre-existing solar inverter or wind turbine to charge up with renewable energy and discharge when needed. It can be used together with renewables or on its own to charge from the grid to store cheap off-peak electricity from TOU tariffs.

## All-in-one, modular system

The P5 is robust and compact. It is modular and the capacity can be tailored to suit the individual user's own energy needs – and it is also upgradeable.

# The P5 at a glance

- Slim, modular design
- Made in Britain
- Choice of 3.6kW and 6kW hybrid inverter which can be oversized to accommodate 5.4kW or 9kW of solar PV panels respectively
- 5, 10, 15 and 20kWh capacity options
- SMARTSTOR™ enabled

- Easy-to-install, indoors or outdoors (IP65 rated)
- Multi-layered safety features
- UK customer support
- Access to the customer Portal
- Emergency power option
- Choice of grey or white
- 10-year warranty / unlimited cycles



**NEW**

## POWERSVAULT GATEWAY

POWERING YOUR HOME DURING A GRID OUTAGE

- Complete home back-up protection during power outages
- Automatically activates during a power cut
- Personalised settings via Portal
- Continue to generate solar energy even when no grid supply
- Small, sleek design



# SMARTSTOR

**Increase your savings by an average of 90% vs. other solar batteries\***

SMARTSTOR™ is the AI brain behind our energy management software. It learns your individual usage patterns, checks the weather forecast, plugs in data points from your grid energy supplier and knows when the cheapest energy is available on your time-of-use tariff. It takes this information to plan a schedule for your Powervault battery, working out in advance when you can rely on renewables and when you can't.



## Maximised solar usage

By forecasting solar generation and aligning it with energy consumption patterns, SMARTSTOR™ optimises self-consumption and reduces reliance on the grid for optimum energy efficiency.



## Optimised grid charging

SMARTSTOR™ intelligent AI manages grid charging by analysing next-day weather forecasts, energy usage patterns, and tariff rates, charging at cheap rates to reduce reliance on expensive imports.



## Prescriptive analytics

With Powervault's SMARTSTOR™ prescriptive analytics, you leave the decision-making to the experts and sit back and enjoy the benefits.



## Dynamic scheduling

Powervault SMARTSTOR™ dynamically adjusts charging schedules, unlike many of our competitors who simply report on historical events.

\*vs. a battery with no TOU tariff or scheduling capability

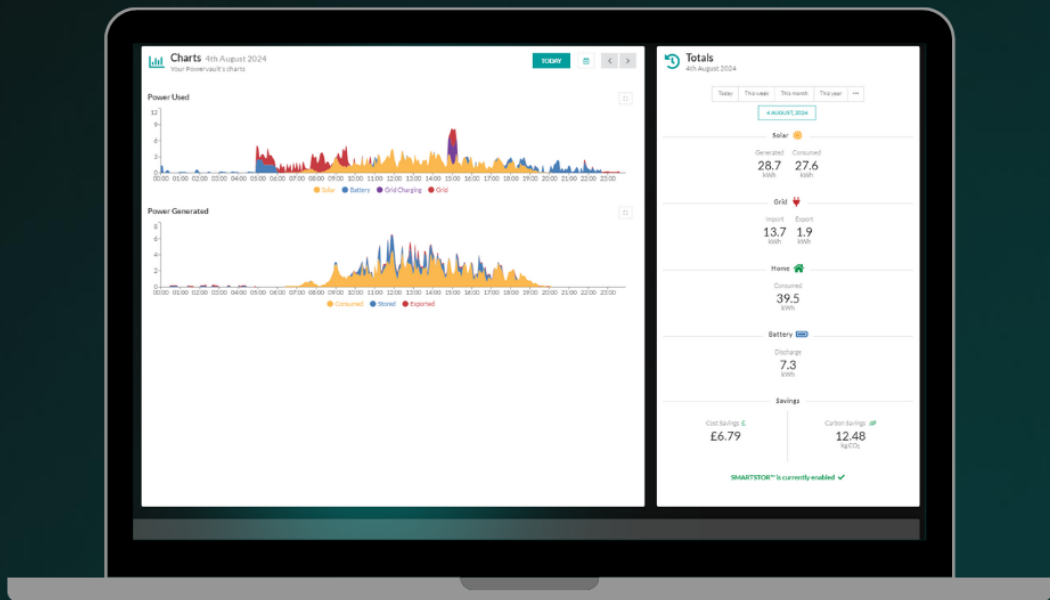
# Real-time energy insights at your fingertips



## Powervault Portal

With Powervault's web portal you can monitor your real-time energy production and consumption, check your battery status, view historical data, and adjust settings such as charging schedules and energy usage priorities.

The Powervault Portal incorporates a live view, daily totals and charts that show each 24 hour period. Customers can use scheduling features in the Portal to take advantage of Time of Use (ToU) tariffs, and can optimise their P5 with SMARTSTOR™, Powervault's proprietary artificial intelligence energy optimisation system.



# P5 Datasheet

Powervault P5 Product Specifications			
Unit colour options		Grey or white	
Choice of Hybrid Inverter		3.6 kW	6 kW
Integral Hybrid Inverter	Max. DC power input from PV	5.4 kW	9 kW

Choice of Battery Capacity		5 kWh DC	10 kWh DC	15 kWh DC	20 kWh DC
Battery storage	Usable AC capacity <sup>1</sup>	4 kWh	8 kWh	12 kWh	16 kWh
	Max input power (3.6kW inverter)	2.8 kW	5.6 kW	5.6 kW	5.6 kW
	Max output power(3.6kW inverter)	2.3 kW	3.4 kW	3.4 kW	3.4 kW
	Max input power (6kW inverter)	2.8 kW	5.6 kW	5.6 kW	5.6 kW
	Max output power (6kW inverter)	2.3 kW	4.7 kW	4.7 kW	4.7 kW
	Warranty Cycles / Years	Unlimited / 10 years			
	State of health at end of warranty	70%			
Physical parameters	Dimensions (mm: w x h x d)	640 x 955 x 210	640 x 1,330 x 210	640 x 1,755 x 210	640 x 2,180 x 210
	Mounting	Floor standing and wall support required			
	Total weight (battery + inverter) kg	90kg	140kg	190kg	235kg
Installation requirements	Ingress Protection Rating	IP65 (indoor or outdoor installation)			
	Installer	By Powervault approved installer partner			

Notes
<p>Values accurate to +/- 5%. <sup>1</sup> Values provided for 25°C. Capacity at new. Capacity declines over life and with usage to state of health at end of warranty. Capacity and power output may vary dependant on local installation conditions. Power output and input also varies dependent on state of charge, temperature and grid voltage. Charging power reduced below 5°C. Charging and discharging power reduced (de-rated) at high temperature. All values are subject to Powervault's Warranty Terms and General Terms &amp; Conditions of Sale being met. Errors and omissions excepted.</p>

