

POWERVAULT

Introducing the P5: Pre-order now

Easy to install, simple to use, and cost effective: Powervault's first, fully integrated solar and battery storage system.

Designed to slash energy bills by storing self-generated renewable energy and low-cost, off-peak electricity from the grid, the P5 is the culmination of over 10 years' innovation at Powervault.

The Powervault P5 will transform energy usage, reduce users carbon footprint and help customers be part of the solution to climate change.

Powervault will be launching the P5 and its subscription service, Powervault Plus in July 2024.

The Powervault P5 is available to renewable energy installers to pre-order.

To find out more please contact enquiries@powervault.co.uk.
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Save money and get net zero ready

Renewable energy storage is vital to reducing energy bills and achieving net zero – but consumer storage solutions are often too complex to use and require multiple parts to be installed.

This is where the innovative Powervault P5 provides the perfect solution. An essential part of modern smart homes and commercial premises, it's designed to make the net zero energy transition easy for everyday consumers and businesses. As a DC-connected system the P5 provides two solar PV

Hybrid Inverter options. As an AC connected system, the P5 is compatible with all grid-connected solar PV and wind turbines and has no impact on valuable Feed-in-Tariff (FIT) generation payments.

How does the P5 work as a hybrid inverter?

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 and discharges it when needed. It can also charge from the grid to store cheap off-peak electricity to use during peak hours. This is particularly useful for users with time of use (TOU) tariffs like those designed for Electric Vehicles owners.

How does the P5 work as an AC-connected battery?

The P5 can also work alongside a pre-existing solar inverter or wind turbine to charge up with renewable energy and to 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.

Discover the P5



- Choice of 3.6 kW and 6 kW AC inverter which can be oversized 50% to accommodate 5.4 kW or 9 kW DC PV respectively
- 5, 10, 15, 20 kWh DC energy storage capacity options
- IP65 rated: outdoor installation
- Emergency power option
- Slim, compact all in one design
- LED display with status indicator
- Passive cooling
- Access to the Powervault Portal
- 10 year warranty

POWERSVAULT PLUS



Subscribe to Powervault Plus to gain access to the following additional features:

- Unlimited cycle warranty
- SMARTSTOR optimisation – maximising benefit from a range of smart tariffs
- Enhanced data access through API key
- Proactive monitoring and alerts

Choose your Powervault



Model shown is 15 kWh.

| Capacity option (DC) | 5 kWh | 10 kWh | 15 kWh | 20 kWh |
|----------------------------|-----------------|-------------------|-------------------|-------------------|
| Capacity (AC) | 4 kWh | 8 kWh | 12 kWh | 16 kWh |
| 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 |

Inverter options available for all capacities

| | | |
|----------------|--------|------|
| Inverter power | 3.6 kW | 6 kW |
| Max DC power | 5.4 kW | 9 kW |

Other options available for all capacities

| Colour | All Grey | White with Grey |
|-------------------------|----------|---|
| Emergency Power options | None | Emergency power socket |
| | | Critical circuit/ whole house coming soon with Gateway |

P5 Datasheet

Subject to confirmation on launch.

| Choice of Inverter | | 3.6 kW | 6 kW |
|--------------------------|--|---|---------------------------------|
| Integral Hybrid Inverter | Nominal AC Power | 3.68 kW | 6 kW |
| | Max. DC power input from PV | 5.4kW | 9 kW |
| | Rated grid voltage (range) | 230 (176 to 270) Volts | |
| | Max. DC Voltage from PV | 600V | |
| | PV Start input voltage | 100V | |
| | Nominal PV DC operating voltage | 360V | |
| | No. of MPP trackers / strings per MPPT | 2 / 1 | |
| | PV DC operating voltage range | 100V-550V | |
| | No. of MPP trackers / strings per MPPT | 2 / 1 | |
| | Max. DC short circuit current | 24A | |
| | AC Rated output power | 3.68 kVA | 6 kVA |
| | AC maximum current | 16A | 27.3A |
| Conformance | Grid standards | G98, G100 | G99, G100 G98 (16A AC limit) |
| | Conformity | UKCA, CE, EMC, ETSI EN 303 345 | |
| | Protections | DC reverse polarity protection, Insulation resistance monitoring, Ground fault monitoring, Over current / voltage, Battery soft start, Temperature derating and protection. | |

| Choice of Battery | | 5 kWh DC | 10 kWh DC | 15 kWh DC | 20 kWh DC |
|-----------------------------|---|--|---------------|---------------|---------------|
| Battery storage | Nominal DC capacity | 5.12 kWh | 10.24 kWh | 15.36 kWh | 20.48 kWh |
| | Usable AC capacity ¹ | 4 kWh | 8 kWh | 12 kWh | 16 kWh |
| | Max input power (3.6kW inverter) ² | 2.7 kW | 4.9 kW | 4.9 kW | 4.9 kW |
| | Max output power(3.6kW inverter) ² | 2.7 kW | 3.4 kW | 3.4 kW | 3.4 kW |
| | Max input power (6kW inverter) ² | 2.7 kW | 5.6 kW | 5.6 kW | 5.6 kW |
| | Max output power (6kW inverter) ² | 2.7 kW | 4.8 kW | 4.8 kW | 4.8 kW |
| | Cycles | 6,000 | | | |
| | State of health at end of warranty | 70% | | | |
| Warranted AC MWh throughput | 20 MWhAC | 40 MWhAC | 60 MWhAC | 80 MWhAC | |
| Physical parameters | Dimensions (mm: w x h x d) | 640x955x210 | 640x1,330x210 | 640x1,755x210 | 640x2,180x210 |
| | Mounting | Floor and wall support required | | | |
| | Total weight (battery+inverter) (kg) | 90kg | 140kg | 190kg | 235kg |
| Installation requirements | Ambient temperature | 0°-35° ambient | | | |
| | Relative Humidity | 40%-60% relative humidity | | | |
| | Rating | IP65 | | | |
| | Location constraints | In accordance with PAS63100 | | | |
| | Protections | Over / under temperature, over current | | | |

Notes

Values accurate to +/- 5%. ¹ 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. ² Subject to confirmation post-launch. Power output and input also varies dependent on state of charge, temperature and grid voltage. Charging power reduced below 15°C. Charging and discharging power reduced (de-rated) at high temperature. All values are subject to Powervault's Warranty Terms and General Terms & Conditions of Sale being met. Errors and Omissions Excepted.

POWERVAULT PLUS

Powervault Plus technology lets you take control of your energy ecosystem whether in your home or business.

It gives you the power to maximise the energy you have generated and use it when you choose. Add in Powervault Plus and you have total peace of mind.

WHY POWERVAULT PLUS?

Powervault SMARTSTOR™ is the AI brain behind Powervault Plus software. It learns your individual usage patterns, plugs in data points from your grid energy supplier and knows when the cheapest energy is available on your time-of-use tariff. Next it takes geo-location weather data and decides in advance when you can rely on your renewables, and when you can't. With Powervault's SMARTSTOR™ prescriptive analytics, you can sit back and enjoy the benefits.



Optimised grid charging

SMARTSTOR™ intelligent AI manages grid charging by analysing next-day weather forecasts, energy usage patterns, and tariff rates. So you never use grid energy when you don't need to, minimising costs and maximising savings.



Maximised solar use

By forecasting your solar generation and aligning it with energy consumption patterns, SMARTSTOR™ maximises solar power use. This means you optimise self-consumption and reduce reliance on the grid resulting in optimum energy efficiency.



Manufacturer backed warranty

A Powervault Plus subscription means you are continuously connected to our network of technical experts. We monitor your battery performance and proactively get in touch if our dashboard flags an alert. It will detect issues with the battery or any renewable connected to it, giving you complete peace of mind.



Dynamic scheduling

Powervault SMARTSTOR™ uses prescriptive analytics to dynamically adjust charging schedules, unlike our competitors who simply report on historical events. You have the option to manually set your charging schedule or enable SMARTSTOR™ machine learning do the hard work for you. Powervault's approach is based on data-led decision-making and ensures that the battery is optimally charged and efficient at all times.

POWERVAULT P5

Retail Price List

| DC Nominal kWh ¹ | 5.12 kWh | 10.24 kWh | 15.36 kWh | 20.48 kWh |
|-------------------------------|----------|-----------|-----------|-----------|
| AC Usable kWh | 4 kWh | 8 kWh | 12 kWh | 16 kWh |
| Retail price ex. VAT | £3,600 | £4,900 | £6,300 | £7,600 |
| Standard install ² | £600 | £600 | £600 | £600 |
| Powervault Plus (year 1) | £10/mo | £10/mo | £10/mo | £10/mo |

¹Any DC Nominal Capacity provided is strictly for information only. No warranties are provided regarding any DC Nominal Capacity. For the purposes of our warranty terms only AC Usable Capacity may be relied upon.

Available for pre-order

INSTALLATION: Subject to survey²

²Due to the potential complexity of wiring and other site-specific issues sometimes encountered we need to do a full site survey before providing a final quote for installation. Location in mainland England, Wales and Scotland within 50 miles or 1.5 hours drive of a Powervault approved installer. For the avoidance of doubt this area excludes Northern Ireland and islands that cannot be reached by road. Any other area will be subject to an additional charge for travelling time and travelling costs such as mileage. Any such charges will be detailed by Powervault in advance of the installation.

Emergency Power Supply Sockets: £250

A simple solution allowing you to use residual energy stored in your Powervault in the event of a power cut.

Emergency Power Gateway (coming soon): £800

Use residual energy stored in your Powervault to power your whole home.

Powervault Ltd

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POWERVAULT P5

Trade Price List

| DC Nominal kWh ¹ | 5.12 kWh | 10.24 kWh | 15.36 kWh | 20.48 kWh |
|-----------------------------|----------|-----------|-----------|-----------|
| AC Usable kWh | 4 kWh | 8 kWh | 12 kWh | 16 kWh |
| Trade price ex. VAT | £2,900 | £3,900 | £5,000 | £6,100 |
| Standard delivery ex VAT | £150 | £150 | £200 | £200 |

¹Any DC Nominal Capacity provided is strictly for information only. No warranties are provided regarding any DC Nominal Capacity. For the purposes of our warranty terms only AC Usable Capacity may be relied upon.

Available for pre-order

²All prices quoted ex works; standard delivery applicable to delivery in mainland England and Wales and any part of mainland Scotland within 1.5 hours drive of Glasgow or Edinburgh. For the avoidance of doubt this area excludes Northern Ireland and islands that cannot be reached by road. Any other area will be subject to an additional charges.

Emergency Power Supply Sockets: £100

A simple solution allowing you to use residual energy stored in your Powervault in the event of a power cut.

Emergency Power Gateway (coming soon): £600

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