

POWERVAULT

# Powervault P4 Technical Specs

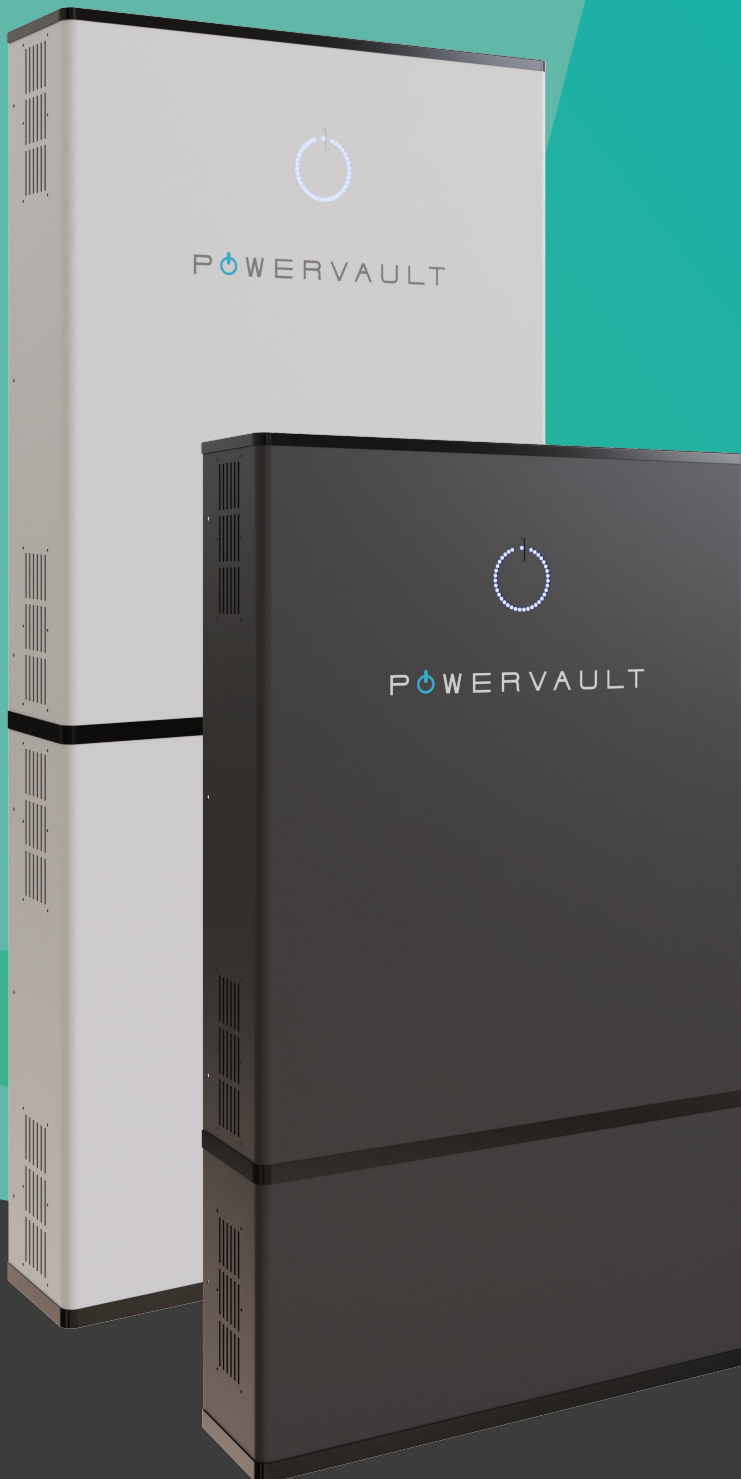
## Intelligent Energy Storage for the Modern Smart Home or Business

Designed to reduce energy bills by storing renewable energy generated at the property and low-cost energy from the grid through time of use tariffs.

The Powervault P4 is an essential component in any 'behind-the-meter' energy storage installation, playing a pivotal role in the transition to a future powered by clean energy.

The Powervault P4 comes with full automation ability and web portal, giving you access to all our smart features as well as energy consumption and generation data from a phone or web browser.

For more information:  
[www.powervault.co.uk](http://www.powervault.co.uk)



Powervault P4		8kWh	12kWh	16kWh	20kWh	24kWh
BATTERY	Battery type and chemistry	Lithium Ion (LFP)				
	Capacity (AC) <sup>1</sup>	8 kWh	12 kWh	16 kWh	20 kWh	24 kWh
	Battery set configuration	4 x 50Ah	6 x 50Ah	8 x 50Ah	10 x 50Ah	12 x 50Ah
	Battery nominal voltage	48V				
	Depth of discharge	100%				
PERFORMANCE & WARRANTY	Max. continuous power input (AC) <sup>1,2</sup>	3.3 kW	4.2 kW			
	Max. continuous power output (AC) <sup>1,2</sup>	4.0 kW	4.8 kW			
	Warranty – discharge MWh	28	43	57	71	86
	Warranty – discharge cycles	4,500 cycles				
	Warranty – years	10				
	State of health at end of warranty	60%				
	Cooling	Passive				
	Maintenance	No maintenance required subject to installation environment				
COMMUNICATIONS & CONNECTIVITY	User interface	Web based customer portal with mobile home screen icon				
	Internet connectivity	Yes; ethernet built in, Wireless LAN <sup>4</sup> , Powerline <sup>3</sup>				
	Smart control	Charge and discharge schedule set via the portal				
SMART FEATURES	Intelligent tariff control	Available via SmartSTOR, matched to wide range of Time of Use tariffs				
	Schedule control	Charge/Discharge schedule set manually or by algorithm				
MECHANICAL	Enclosure	Floor standing, or wall mounted on a load bearing structure			Floor and wall mounting required	
	Battery packs	4	6	8	10	12
	Dimensions (H x W x D cm) <sup>4</sup>	180 x 106 x 24	180 x 106 x 24	180 x 106 x 24	220 x 106 x 24	220 x 106 x 24
	Weight (kg)	180	230	280	330	380
INSTALLATION	Ambient temperature	0°C - 35°C, well ventilated				
	Relative humidity	40% - 60% relative humidity				
	Location constraints	Must be located in an indoor, weatherproof, well ventilated, space with sufficient access and air flow, preferably ground floor in accordance with guidelines. E.g utility room, kitchen, garage				
	Wiring constraints	Current clamp: 25m				
	Additional parts not included	RCBO, associated wiring, emergency power sockets if option not purchased				
ADD-ONS	Emergency power socket	Access emergency power from the Powervault				
SAFETY	Anti-islanding	G98				
	Over-temperature protection	Yes				
	Overload protection	Yes				
	Over-/under-voltage protection	Yes				
ELECTRICITY NETWORK STANDARDS	Conformity	UKCA, CE, ETSI EN 303 345				
	Inverter compliance (UK)	G98, G99				
	Export limitation	G100				

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. <sup>2</sup> Power output and input may also vary dependent on state of charge, temperature and grid voltage. <sup>3</sup> Requires external adapter. <sup>4</sup> The large P4 cases must be both floor and wall mounted. Medium cases may be wall mounted to a load bearing wall, or floor and wall mounted. If wall mounted, space is required underneath for wiring. All values are subject to Powervault's Warranty Terms and General Terms & Conditions of Sale being met. Errors and Omissions Excepted.