

# Powervault 3

## AN INTELLIGENT ENERGY STORAGE SYSTEM FOR THE SMART HOME



Designed to help users reduce their energy bills by storing free solar energy or low-cost electricity from the grid. **Powervault 3** is also designed to provide grid services and interact with other smart appliances in the home, which will provide additional value and benefits to the user.

**Powervault 3** integrates seamlessly with the modern smart home.

All functionality is automated and can be controlled via the online portal.

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

# Powervault 3

		4kWh	8kWh	12kWh	16kWh	20kWh
<b>BATTERY</b>	Battery type and chemistry	Lithium-polymer: Li-NMC				
	Nominal capacity (AC)	4kWh	8kWh	12kWh	16kWh	20kWh
	Usable capacity (AC) <sup>1</sup>	3.8kWh	7.6kWh	11.4kWh	15.2kWh	19kWh
	Battery set configuration	2 x 44Ah	4 x 44Ah	6 x 44Ah	8 x 44Ah	10 x 44Ah
	Battery nominal voltage	51.8V				
	Depth of discharge	100%				
<b>PERFORMANCE &amp; WARRANTY</b>	Max. continuous power input (AC) <sup>1,2</sup>	2.3kW to 3.2kW	3.3kW			
	Max. continuous power output (AC) <sup>1,2</sup>	2.3kW to 3.2kW	5.5kW*			
	Peak power input (AC)	6.6kW; 1 sec.				
	Peak power output (AC)	7kW; 1 sec.	11kW; 1 sec.			
	MWh under warranty	31.5	62.9	94.4	125.8	157.3
	Estimated equivalent cycles	>6,000				
	Warranty (years)	10				
	State of health at end of warranty	70%				
	Cooling	Internal convection				
Maintenance	Nil					
<b>COMMUNICATIONS &amp; CONNECTIVITY</b>	AC-coupled	Yes				
	DC input (charging direct from PV)	Available upgrade: 2 DC-inputs @ 6.5kW				
	Internet connectivity	Yes; Wireless LAN, Ethernet, Powerline				
<b>SMART FEATURES</b>	Frequency monitoring for FFR	Yes, GridFLEX™ subscription required				
	Fleet aggregation control	Yes, subscription required				
	Smart tariff controller via portal	Yes				
<b>MECHANICAL</b>	Enclosure	Floor or wall-mountable				
	Battery packs	2	4	6	8	10
	Dimensions (Hcm x Wcm x Dcm)	97x100x25	127x100x25	156x100x25	184x100x25	212x100x25
	Weight (kg)	129	179	229	279	329
<b>INSTALLATION</b>	Optimum location	Indoors and ground-level: utility room, kitchen, garage				
	Optimum operating temperature	0°C - 35°C				
	Optimum operating humidity	40% - 60% relative humidity				
	Location constraints	20cm around perimeter of unit to permit air flow				
	Wiring constraints	Current clamp; 25m				
	Additional parts not included	RCBO, associated wiring				
	Internet connectivity	Ethernet as standard; Wireless LAN and Powerline optional				
<b>SAFETY</b>	Anti-islanding	G.98 and G.99				
	Over-temperature protection	Hardware and software protection of inverter/charger unit and battery pack				
	Overload protection	Internal overload protection of inverter/charger and battery pack				
	Over-/under-voltage protection	Hardware and software protection				
<b>ELECTRICITY NETWORK STANDARDS</b>	CE Marking	Yes				
	IP Rating	IP41				
	Inverter compliance (UK)	G.98 and G.99				

Powervault Ltd. 25 Lavington Street, London SE1 0NZ

t +44 (0)203 653 1111 e hello@powervault.co.uk www.powervault.co.uk

E&OE. Edition 01/2020

<sup>1</sup> Under test conditions. Accurate to +/- 5%. Values provided for 25°C, 3.3kW charge/discharge. Capacity and power output may also vary dependent on local installation conditions. <sup>2</sup> Power output and input may also vary dependent on state of charge. \* Subject to G99 application approval, submitted by the customer. Otherwise limited to a maximum of 3.68kW by the distribution network operator (DNO). Errors and Omissions Excepted.