

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

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		4.1kWh	8.2kWh	12.3kWh	16.4kWh	20.5kWh
BATTERY	Battery type and chemistry	Lithium-polymer: Li-NMC				
	Usable capacity (AC)	4.1kWh	8.2kWh	12.3kWh	16.4kWh	20.5kWh
	Nominal capacity (AC)	4.1kWh	8.2kWh	12.3kWh	16.4kWh	20.5kWh
	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%				
	Nominal Charger rating (kW)	3.3				
	Nominal Inverter rating (kW)	3.5	5.5			
	Max. continuous power input (AC)	3.3kW				
	Max. continuous power output (AC)	3.5kW	5.5kW			
	Peak power input (AC)	6.6kW; 1 sec.	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				
COMMUNICATIONS & CONNECTIVITY	AC-coupled	Yes				
	DC input (charging direct from PV)	Available upgrade: 2 DC-inputs @ 6.5kW				
	Internet connectivity	Yes; Wireless LAN, Ethernet, Powerline				
SMART FEATURES	Frequency monitoring for FFR	Yes, GridFLEX™ subscription required				
	Fleet aggregation control	Yes, subscription required				
	Smart tariff controller via portal	Yes				
MECHANICAL	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
INSTALLATION	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				
SAFETY	Anti-islanding	ER G.83/2 and ER G.59/3				
	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				
ELECTRICITY NETWORK STANDARDS	CE Marking	Yes				
	IP Rating	IP41				
	Inverter compliance (UK)	G.83/2 and G.59/3				