

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

Powervault 3

		4.1kWh	8.2kWh
BATTERY	Battery type and chemistry	Lithium-polymer: Li-MNC	
	Usable capacity (AC)	4.1kWh	8.2kWh
	Nominal capacity (AC)	4.1kWh	8.2kWh
	Battery set configuration	2 x 44Ah	4 x 44Ah
	Battery nominal voltage	48V	
	Depth of discharge	100%	
PERFORMANCE & WARRANTY	Usable Charger rating (kW)	3.3	3.3
	Usable Inverter rating (kW)	4.6	5.5
	Nominal Charger rating (kW)	5.5	
	Nominal Inverter rating (kW)	5.5	
	Max. continuous power input (AC)	3.3kW	3.3kW
	Max. continuous power output (AC)	4.6kW	5.5kW
	Peak power input (AC)	6.6kW; 1 sec.	6.6kW; 1 sec.
	Peak power output (AC)	9.2kW; 1 sec.	11kW; 1 sec.
	MWh under warranty	31.5	62.9
	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)	Yes; 2 DC-inputs @ 6.5kW	
	Internet connectivity	Yes; Wireless LAN, Ethernet, Powerline	
SMART FEATURES	Frequency monitoring for FFR	Compatible	
	Smart tariff controller via portal	Yes	
MECHANICAL	Enclosure	Floor or wall-mountable	
	Battery packs	2	4
	Dimensions (Hcm x Wcm x Dcm)	90x98x25	120x98x25
	Weight (kg)	129	179
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	