

PVCompact Technical Specs

Intelligent Energy Storage for the Modern Smart Home

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

The Powervault Compact is an essential component of the modern smart home, playing a pivotal role in our transition to a future powered by clean energy.

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

For more information:
www.Powervault.co.uk



PV Compact		3kWh	4kWh	6kWh	8kWh
BATTERY	Battery type and chemistry	Lithium Ion (LFP)			
	Capacity (AC) ¹	3kWh	4kWh	6kWh	8kWh
	Battery set configuration ²	1 x 74 Ah	2 x 50 Ah	2 x 74 Ah / 3 x 50 Ah	4 x 50 Ah
	Battery nominal voltage	48V			
	Depth of discharge	100%			
PERFORMANCE & WARRANTY	Max. continuous power input (AC) ^{1 3}	1.8 kW	2.5 kW	3.3 kW	3.3 kW
	Max. continuous power output (AC) ¹³	1.4 kW	2.0 kW	2.9 kW	3.5 kW
	Warranty – discharge MWh	10	14	21	28
	Warranty – discharge cycles	4,500 cycles			
	Warranty – years	10	10	10	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 ⁴ , Powerline ⁴			
	Control	Charge and discharge schedule set via the portal			
SMART FEATURES	Smart tariff control via portal	SmartSTOR, matched to wide range of Time of Use tariffs			
	Schedule control	Charge/Discharge schedule set manually or by algorithm			
MECHANICAL	Enclosure	Wall mounted on a load bearing structure			
	Battery packs	1	2	2 / 3	4
	Dimensions (Hcm x Wcm x Dcm)	120 x 61 x 24	120 x 61 x 24	170 x 61 x 24	170 x 61 x 24
	Weight (kg)	85	101	126	158
INSTALLATION	Optimum location	Indoors and ground-level e.g. utility room, kitchen, garage			
	Ambient temperature requirement	0°C - 35°C, well ventilated			
	Humidity temperature requirement	40% - 60% relative humidity			
	Location constraints	Must be located in a weatherproof, well ventilated, space with sufficient access and air flow in accordance with guidelines			
	Wiring constraints	Current clamp: 25m			
	Additional parts not included	RCBO, associated wiring, emergency power socket			
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			
	Export limitation	G100			

Values accurate to +/- 5%. ¹ Values provided for 25°C. Capacity and power output may vary dependant on local installation conditions. ² 3kWh can be upgraded to 6kWh as 2x74Ah. 6kWh comprises 2x74Ah if upgraded from 3 kWh or 3x50Ah if upgraded from 4kWh. 6kWh 2x74Ah cannot be upgraded to 8 kWh. ³ Power output and input may also vary dependent on state of charge. ⁴ Requires external adapter. All values are subject to Powervault's Warranty Terms and General Terms & Conditions of Sale being met. Errors and Omissions Excepted.