

# Powervault 3<sup>eco</sup>

## THE GREEN AND ECONOMIC ENERGY STORAGE SYSTEM FOR THE SMART HOME



Using reconditioned cells from electric vehicles, **Powervault 3<sup>eco</sup>** is a green home energy storage solution that enables users to reduce their energy bills by storing free solar energy or low-cost electricity from the grid. **Powervault 3<sup>eco</sup>** 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<sup>eco</sup>** 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)

		3.9kWh	5.9kWh	7.9kWh
BATTERY	Battery type and chemistry	Second-life: LMO		
	Usable capacity (AC)	3.9kWh	5.9kWh	7.9kWh
	Nominal capacity (AC)	4.5kWh	6.75kWh	9kWh
	Battery set configuration	2 x 40Ah	3 x 40Ah	4 x 40Ah
	Battery nominal voltage	52.5V		
	Depth of discharge	90%		
PERFORMANCE & WARRANTY	Usable Charger rating (kW)	3.5	3.8	3.8
	Usable Inverter rating (kW)	3.5	5.2	5.5
	Nominal Charger rating (kW)	3.8		
	Nominal Inverter rating (kW)	5.5		
	Max. continuous power input (AC)	3.5kW	3.8kW	3.8kW
	Max. continuous power output (AC)	3.5kW	5.2kW	5.5kW
	Peak power input (AC)	7.0kW; 1 sec.	7.6kW; 1 sec.	7.6kW; 1 sec.
	Peak power output (AC)	7.0kW; 1 sec.	10.4kW; 1 sec.	11kW; 1 sec.
	MWh under warranty	6.5	9.8	13.1
	Estimated equivalent cycles	>1,500		
	Warranty	3 years		
	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		
	Internet connectivity	Yes; Wireless LAN, Ethernet, Powerline		
SMART FEATURES	Frequency monitoring for FFR	Yes, subscription required		
	Energy trading capabilities via API	Yes, subscription required		
	Smart tariff controller via portal	Yes		
	smartSTOR system optimisation	Available from 06/2018		
	In-home powerline communication to enable smart appliance control	Available from 11/2018		
MECHANICAL	Enclosure	Floor or wall-mountable		
	Battery packs	4	6	9
	Dimensions (Hcm x Wcm x Dcm)	120x98x25	149x98x25	177x98x25
	Weight (kg)	129	179	276
INSTALLATION	Optimum location	Indoors and ground-level: utility room, kitchen, garage		
	Optimum operating temperature	5°C - 35°C		
	Optimum operating humidity	40% - 60% relative humidity		
	Location constraints	200mm around unit		
	Wiring constraints	Current clamp		
	Additional parts not included	Wiring to connect system to consumer unit		
	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		