

# Powervault P4 Technical Specs

BUILT IN HYBRID INVERTER					
Nominal AC Power	6.0 kW				
Rated grid voltage (range)	230 (176 to 270) volts				
Max. DC power	7.0 kW				
Max. DC Voltage	550 volts				
Start input voltage	125 volts				
Nominal DC operating voltage	360 volts				
No. of MPP trackers / strings per MPPT	2 / 1				
Max. short circuit current	17.5 / 17.5 amps				
Optimizer compatibility	Yes - 3rd party compatible				
Coupling options	AC or DC coupled options available - <b>must be specified</b>				
MODULAR BATTERY STORAGE					
Nominal Capacity	9.6 kWh	14.4 kWh	19.2 kWh	24.4 kWh	28.8 kWh
Usable capacity (AC) <sup>1</sup>	8 kWh	12 kWh	16 kWh	20 kWh	24 kWh
Battery type and chemistry	Lithium Ion (LFP)				
Max. continuous power input (AC) <sup>1 2</sup>	3.3 kW	4.2 kW			
Max. continuous power output (AC) <sup>1 2</sup>	4.0 kW	4.8 kW			
Battery nominal voltage	48 volts				
Depth of discharge	100%				
Multiple units per phase	Yes - subject to survey				
WARRANTY					
Warranty – discharge cycles	4,500 cycles				
Warranty – years	10				
State of health at end of warranty	60%				
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 <sup>4</sup> , Powerline <sup>3</sup>				
Control	Charge and discharge schedule set via the portal				
CONTROL FEATURES					
Smart tariff control	SMARTSTOR software available as standard				
Schedule control	Charge / Discharge schedule set manually or by SMARTSTOR				

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MECHANICAL					
Enclosure	Floor standing, or wall mounted on a load bearing structure			Floor and wall mounting required	
<b>P4 Standard case</b> (H x W x D cm) <sup>4</sup>	180 x 106 x 24	180 x 106 x 24	180 x 106 x 24	220 x 106 x 24	220 x 106 x 24
<b>P4 Slim case</b> (H x W x D cm) <sup>4</sup>	220 x 62 x 24	220 x 62 x 24			
Weight (kg)	180	230	280	330	380
INSTALLATION					
Ambient temperature	0°C - 35°C, well ventilated				
Relative humidity	40% - 60% relative humidity				
Location constraints	In accordance with PAS 63100				
Wiring constraints	Current clamp: 25m				
Additional parts not included	RCBO, associated wiring, emergency power sockets if option not purchased				
ADD-ONS					
Emergency power socket	Access emergency power from the Powervault				
SAFETY					
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)	G99				

Values accurate to +/- 5%. <sup>1</sup> Values provided for 25°C. Capacity at new. Capacity declines over life and with usage to state of health at end of warranty. Capacity and power output may vary dependant on local installation conditions. <sup>2</sup> Power output and input may also vary dependent on state of charge, temperature and grid voltage. <sup>3</sup> Requires external adapter. <sup>4</sup> The large P4 cases must be both floor and wall mounted. Medium cases may be wall mounted to a load bearing wall, or floor and wall mounted. If wall mounted, space is required underneath for wiring. All values are subject to Powervault's Warranty Terms and General Terms & Conditions of Sale being met. Errors and Omissions Excepted.

