

AOESS48V-PW9

Lithium battery



Features

- Home Energy Storage Lithium Battery
- 6, 9 and 12 kWh available models
- Up to 8 units parallel connection
- Wall Mount system for easy installation
- 10 years capacity warranty
- 9000 Cycles
- Passive cooling (no moving parts/fans)
- Certified products

Technical Specification

	AOESS48V-PW6	AOESS48V-PW9	AOESS48V-PW12
Performance			
Battery installed energy storage	6.1 kWh	9.2 kWh	12.2 kWh
Battery usable energy (0.5C/0.5C rated at 25°C)	6,000Wh	9,000Wh	12,000Wh
Output power (rated at 25°C)	6.0 kW	9.2 kW	12.2 kW
Nominal voltage	51.1 V		
Operating voltage range	45.0 V _{dc} – 58 V _{dc}		
Capacity	120 Ah	180 Ah	240 Ah
Max. discharge current	120 A	180 A	200 A
Max. charge current	120 A	180 A	200A
Cycles @100% DoD RT 1C/1C rated at 25°C	6 000 cycles		
Cycles @80% DoD RT 1C/1C rated at 25°C	7 500 cycles		
Cycles @80% DoD RT 0.5C/0.5C rated at 25°C	9 000 cycles		
Efficiency	Up to 98%		

Communication

Display	SOC indicator, status indicator
Communication	RS232 / CAN open (ModBUS available Q3Y2021)
Safety	Digital outputs for charger and inverter control

General Specification

Dimension (LxWxH)	450 x 125 x 600 mm	450 x 125 x 900 mm	450 x 125 x 1200 mm
Weight (Floor stand toolkit included)	45 kg	60 kg	75 kg
Installation	Floor stand, Wall mount		
Connection box	Side or Back		
Operating temperature	-10°C to + 50°C		
Recommended operating temperature	15°C to + 30°C		
Cooling	Natural convection		
Protection rating	NMC - Lithium Nickel Manganese Cobalt Oxide (LiNiMnCoO ₂)		
Scalability	Max. 8 systems in parallel operation		

Standard Compliance (more available upon request)

Certificates	UN38.3
Warranty	10 years (Standard Warranty Capacity)



Worldwide Corporate Offices

Headquarter Germany Hansastraße 8 D-91126 Schwabach Tel: +49 9122 79889 0 Fax: +49 9122 79889 21 Mail: info@alpha-outback-energy.com	Eastern Europe ee@alpha-outback-energy.com	France and Benelux fbnl@alpha-outback-energy.com	Russia russia@alpha-outback-energy.com
	Middle East me@alpha-outback-energy.com	Spain spain@alpha-outback-energy.com	Africa africa@alpha-outback-energy.com

Alpha and Outback Energy GmbH reserves the right to make changes to the products and information contained in this document without notice. Copyright © 2020 Alpha and Outback Energy GmbH. All Rights reserved.

For more information, please visit www.alpha-outback-energy.com