



ALPHA
OUTBACK
ENERGY

Datasheet

AOESS48V-HP Compact



Features

- 36 kWh to 73 kWh
- 9000 Cycles at 80% DoD
- 10 years capacity warranty
- Flexible configuration options
- Compact size and easy installation
- Passive cooling (no moving parts/fans)
- Safe and reliable battery cells
- Made in E.U.

Technical Specification



	AOESS36NMC	AOESS46NMC	AOESS55NMC	AOESS64NMC	AOESS73NMC
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Performance

Battery rack installed energy	36.96 kWh	46.20 kWh	55.44 kWh	64.68 kWh	73.92 kWh
Battery rack usable energy (0.5C/0.5C rated at 25°C)	36.0 kWh	46.0 kWh	55.0 kWh	64.0 kWh	73.5 kWh
Number of Modules	4	5	6	7	8
Nominal voltage	51.1 V				
Operating voltage range	45.0 – 58.0 V				
Capacity	720 Ah	900 Ah	1 080 Ah	1 260 Ah	1 440 Ah
Max. discharge current	450 A	550 A	700 A	800 A	900 A
Max. charge current	360 A	450 A	550 A	650 A	750 A
Cycles @100% DoD 1C/1C rated at 25°C	6 000 cycles				
Cycles @80% DoD 1C/1C rated at 25°C	7 500 cycles				
Cycles @80% DoD 0.5C/0.5C rated at 25°C	9 000 cycles				
Efficiency	Up to 98%				

Communication

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

General Specification

Weight (without the rack)	240 kg	300 kg	360 kg	420 kg	480 kg
Operating temperature	-10°C to + 50°C				
Recommended operating temperature	15°C to + 30°C				
Cooling	Natural convection				
Protection rating	IP 42				
Cell technology	NMC – Lithium Nickel Manganese Cobalt Oxide (LiNiMnCoO ₂)				

Standard Compliance (more available upon request)

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



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