

Technical Specifications of AL0E Battery



March, 2024

Revision History

No.	Version	Revised by	Revision Date	Revision Description
1	Rev. 1	Product Department	March, 2024	First edition
2	Rev. 1.1	Product Department	March, 2024	Update charge and discharge temperature

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1. Product Overview

1.1. Product Overview

The product is the battery pack that constitutes the battery cluster of ALOE/ALOE Pro-M series. In ALOE/ALOE Pro-M series, a single battery cluster supports 4 parallel-connected packs and a maximum of 24 packs can be configured to form 6 systems in parallel.

2. System Technical Specifications

2.1. The technical parameters of the system are shown in Table 1:

Model	ALOE-MB5	ALOE-MB10	ALOE-MB15	ALOE-MB20
Battery pack number	1	2	3	4
Rated energy	4.8kWh	9.6kWh	14.4kWh	19.2kWh
Nominal Battery Capacity (kWh)	4.8kWh	9.6kWh	14.4kWh	19.2kWh
Battery Depth of Discharge	90%DOD			
Usable Battery Capacity (kWh)	4.32kWh	8.64kWh	12.96kWh	17.28kWh
Max, Min, Nominal DC Voltage	43-54V, 48V			
Rated voltage	48V			
Standard charge/discharge current	50A	100A		
Rated DC Power	2.4kW	4.8kW		
Max. charge current	60A	120A		
Max. discharge current	70A	140A		
Weight	45kg	90kg	135kg	180kg
Dimensions (W * D * H mm)	600*430*178	600*430*328	600*430*656	600*430*806
IP rating	IP65			
Operating altitude	≤2000m			
Operating temperature	-10℃~45℃			
Storage temperature	0℃~30℃			
Relative humidity	5%~95% , RH			
Cycle life	≥ 6000 times (0.5 C/0.5C, @ 25 °C, 90% DOD, 70% EOL)			
Installation	Floor mount			

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Standard charge/discharge current	50A	100A		
Rated DC Power	2.4kW	4.8kW		
Max. charge current	60A	120A		
Max. discharge current	70A	140A		
Weight	59kg	104kg	149kg	194kg
Dimensions (W * D * H mm)	600*430*288	600*430*438	600*430*766	600*430*916
IP rating	IP65			
Operating altitude	≤2000m			
Standard temperature range for charging (°C)	0°C~50°C			
Standard temperature range for discharging (°C)	-10°C~50°C			
Storage temperature	0°C~30°C			

Relative humidity	5%~95% , RH
Cycle life	≥ 6000 times (0.5 C/0. 5C, @ 25 °C, 90% DOD, 70% EOL)
Installation	Floor mount

country of manufacture: China

Warranty period: Subject to the Limited Warranty, the Warranty as the accessory of ESS is valid for 10 years of the “Period of Performance Guarantee” from the first installation date or 6000 cycles, whichever occurs first. (Standard specifications:

- A. the 10-year warranty includes 5 years for free + 5 years appropriate transport costs of spare parts or other components related to the product;
- B. a cycle means one time charge and discharge;
- C. each cycle should be complied with the requirements of 0.5C, and 90% SOC of charge and discharge) The warranty period starts 90 days after IPOTISEEDGE products are delivered, or the day IPOTISEEDGE receives the request for product service, whichever occurs first. The warranty period is calculated based on calendar years.