

Technical Specifications of ALOE Battery



July, 2025

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
3	Rev. 2	Product Department	May, 2025	Update DOD-related parameters and increase the PV overload value
3	Rev. 2.1	Product Department	July, 2025	Update the parameter table to reflect the new values for Depth of Discharge (DOD) and cycle life, and revise the description for support PV overload accordingly.
4	Rev. 2.1	Product Department	July, 2025	Update the parameter table to reflect the new values for Depth of Discharge (DOD)

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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

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	4.8kWh	9.6kWh	14.4kWh	19.2kWh
Usable Battery Capacity	4.8kWh	9.6kWh	14.4kWh	19.2kWh
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			

Model	ALOE PRO-M5	ALOE PRO-M10	ALOE PRO-M15	ALOE PRO-M20
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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	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	0℃~50℃			
Standard temperature range for discharging	-10℃~50℃			
Storage temperature	0℃~30℃			
Relative humidity	5%~95% , RH			

Country of manufacture: China

Warranty period: (Subject to the Limited Warranty)

Subject to the limitations & exclusions contained herein, the Warranty as the accessory of Aloe series ESS is valid for 10 years of the limited product and performance guarantee from the first installation date or 6000 cycles, whichever occurs first. Standard specifications:

A. the products are free from major faults and workmanship for ten(10) years for free of charge from the warranty commencement date;

B. a cycle means one time charge and discharge;

C. each cycle should be complied with the requirements of 0.5C, and 100% SOC of charge and discharge).

The warranty period is calculated based on calendar years.