

Support up to
6 units in parallel
≤115kWh



ALOE Pro-M10/15/20

Low-Voltage Parallel On-Grid Residential ESS

Provides UPS functionality for continuous power on critical loads during outages. Converts and stores solar energy, supplies stable power, and supports grid integration to feed excess energy back, potentially earning revenue.



Features

Labor-Saving, Plug-and-Play

Quick plug and play design for easy transport and installation. Single PACK ≤45kg, control box ≤14kg, installable by one person in 30 minutes.

Energy-Saving Mode

Automatically enters low power mode during idle periods, with quick wake-up when current is detected.

Off-Grid Ready

Supports up to 6 units in off-grid parallel mode, charging household loads via photovoltaic circuit without a power grid.

Scalable Energy

Expand by stacking PACKs, from 9.6kWh to 19.2kWh. Multi-system parallel connections expand from 6kW, 19.2kWh to a maximum of 36kW, 115.2kWh, over 8,000 life cycles. Fault tolerant and allows continuous operation even if one module fails.

*Offers 10-year warranty on the entire system and batteries for all residential products.

Energy and Money Saving at Your Fingertips

Our app provides 24/7 electricity usage monitoring, remote control, mode switching, automated financial tracking, remote diagnostics, and scheduled charging/discharging, all with a minimalist, user-friendly interface.

Day/Night Mode

for more personalized user experience

Remote Control

Remote device control and mode switching

Remote Diagnostics

Remote diagnostics by installers for quick issue resolution

Smart Finance Tracking

Automatic income and expense tracking



Specifications

Model	ALOE PRO-M10	ALOE PRO-M15	ALOE PRO-M20
System Parameters			
Battery Box Quantity	2	3	4
Rated Energy	9.6 kWh	14.4 kWh	19.2 kWh
Battery Chemistry	LFP(LiFePO4)		
Rated pack voltage	48V		
Max. Charging/Discharging Current	120A/140A		
Battery Module Connection	1-4 in Parallel		
PV Data			
Max. PV Input Power	9000 W		
Max. PV Input Current	15A/15A		
Max. PV Input Voltage	550V		
Star-up Input Voltage	90		
Rated PV Input Voltage	360V		
MPPT Voltage Range Full Load (V)	230-480		
Max. PV Short-circuit Current	20A/20A		
No. of MPPT trackers	2		
String per MPPT tracker	1		
On-Grid			
Rated Voltage	220V/230V		
Rated Frequency	50Hz/60Hz		
Rated Output Power	6000W		
Max. AC output apparent power	6000VA		
Rated Input Power	9000W		
Max. AC Input Power	9000W		
Rated AC Input Current	41A		
Max. AC Input Current	41A		
Rated Output Current	26.1A		
Max. AC Output Current	27.2A		
Backup			
Rated Voltage	220 V/230 V		
Rated Frequency	50 Hz/60 Hz		
Rated Output Power	6000W		
Rated Output Current	26A		
Max. AC Output Current	26A		
Certifications			
Safety	IEC62109		
EMC	IEC61000		
Grid Regulation	NRS097-2-1, AS4777.2, RD1699/661/647/413/244/UNE217002&NTS/UNE217001 G99, C10/11		
General data			
Weight	PCS: 25 kg Battery: 104 kg	PCS: 25 kg Battery: 149 kg	PCS: 25 kg Battery: 194 kg
Dimension (W*H*D)	PCS: 515*175*487 mm Battery: 600*430*400 mm	PCS: 515*175*487 mm Battery: 600*430*590 mm	PCS: 515*175*487 mm Battery: 600*430*740 mm
Ingress Protection	IP65		
Operating Temperature Range	-10 °C~45 °C		
Communication	CAN2.0B, RS485, WiFi		
Operating Humidity	5%~95%, RH		
Installation Method	Ground-Mounted/Wall-Mounted (optional)		

© The specifications are subject to change without prior notice. 2024Q4

Distributed by Meta Solar Pty Ltd:

Address: 17/191 McCredie Road Smithfield NSW 216

Tel: 1300 789 097; Email: info@metasolar.com.au

www.metasolar.com.au

