

Hello There.

Let's Rethink Energy with LAVO Life.

With a built-in inverter and latest smart systems, you will be able to harness and maximise your use of renewable energy in a sleek and minimalist form factor.



All Metal
Construction



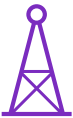
Cobalt Free
LifePO4



Plug and Play
Installation



Multi-State
Protection



Remote Firmware
Upgrade



Smart
System



User
Friendly App



10 Year
Warranty



Special Features

- Easy installation with modular and stacked design.
- Maximise Renewable Energy
- High performance & efficiency charge and discharge.
- Superior Safety and Whisper quiet system.
- Robust Construction
- Adaptive with self-power, backup and easy for indoor and outdoor installation.



LAVO Storage S2

Product Unit	Model Number
AIO	AIO-10KWH1P2S-CE
PCS	AIO-10KWH1PINV-CE
Battery	AIO-10KWH1PBM-CE

General Data

AIO Dimensions W*D*H (mm)	730*203*1282
AIO Weight (kg)	139.8
Communication	CAN/RS485/DRM
Communication with Portal	Wifi/Bluetooth
Human-machine interface	LED/APP
Ingress Protection	IP65
Noise Emission (dBA)	<29
Self-consumption at Night (W)	<10
Battery Pack Topology	Non-isolated
Heat Dissipation Method	Natural
Working Temperature Range (Charging)	0-50°C
Working Temperature Range (Discharging)	-10-55°C
Optimum Working Temperature	10-35°C
Relative Humidity (RH)	0-95%, Non-condensation
Warranty	10 years
Altitude (m)	≤3000
Mounting Method	Stacked Ground-mounted
Certification Standard	IEC62109-1/2, IEC61000-6-1/3, AS 4777 etc.

PV Input Data

PCS Model	AIO-10KWH1PINV-CE
PCS Dimensions W*D*H (mm)	730*203*482
PCS Net Weight (kg)	33
Max. Input Power (Wp) @ STC	10000
Max. Input Voltage (V)	600
MPPT Voltage Range (V)	120-550
MPPT Start-up Voltage (V)	120
MPPT Max. Input Current (A)	13.5
MPPT Max. Short Circuit Current (A)	15
No. of MPPT Trace Paths	2
No. of PV Strings Per MPPT Tracker	1
PV Interface	MC4

AC Output Data (Grid On)

Max. Output Apparent Power (VA)	5000
Rated Output Power (W)	5000
Max. Output Power (VA)	5000
Rated Output Current (A) @230Vac	21.7
Max. Output Current (A)	22.7
Rated Output Voltage/Range (V)	230/180-280
Rated Output Frequency/Range (Hz)	50/60
Power Factor (cosφ)	From 0.8 leading to 0.8 lagging
Output the Connection Phase	1/1
Max. output fault current (A)	42
Max. output overcurrent protection (A)	29
THD (%)	<3

AC Input Data

Rated Input voltage (V)	230
Max. Input current (A)	42
Rated Input frequency (Hz)	50/60

AC Output Data (Back-up)

Rated Output Power (VA)	5000
Peak Output Power (VA)	6000 @10s
Rated Output Voltage/Range (V)	230/180-280
Rated Output Frequency/Range (Hz)	50/60
THD (%)	<3



Battery Data

Battery Model	AIO-10KWH1PBM-CE			
Parallel Number of PACK	1	2	3	4
Type of Battery	LiFePO4			
Total Capacity (Ah)	106	212	318	424
Total Energy (kWh)	5.427	10.854	16.281	21.708
Rated Capacity (Ah)	104	208	312	416
Rated Energy (kWh)	5.324	10.649	15.974	21.299
Max. Recommended Depth of Discharge	90% (Default)			
Usable Energy (kWh)	4.792	9.584	14.377	19.169
Rated Input Voltage (V)	51.2			
Rated Current (A)	50		100	
Rated Power (W)	2560		5120	
Working Voltage Range (V)	43.2-57.6			
Max. Charging Current (A)	50		100	
Max. Charging Power (W)	2560		5120	
Max. Discharging Current (A)	50		100	
Max. Discharging Power (W)	2560		5120	
Battery Module Dimensions W*D*H (mm)	730*203*370			
Battery Module Weight (kg)	51	102	153	204
Working Temperature (Charging)	0-50°C			
Working Temperature (Discharging)	-10-55°C			
Optimum Working Temperature	10-35°C			
IP Rating	IP 65			
Installation	Stack Mounting			
Communication	CAN/RS485			
Remote Update	Yes			
Parallel Number	4P			
Related Humidity (RH)	0-95%			
Altitude (m)	≤3000			
Cycle Life (25°C/0.5C)	6000 Cycles/70%SOH			
Design Life (25°C/0.5C)	10 Years/70%SOH			

Efficiency

Max. Efficiency	96.9%
European Efficiency	96.2%
Max. Battery Discharge Efficiency	94.3%

Protection Device

AC Short-circuit Protection	Integrated
Overload Protection	Integrated
Residual Current Detection	Integrated
Battery Reverse Protection	Integrated
Pollution Class	PD2(inside), PD3(outside)
Anti-island Protection (RoCoF)	Integrated
AC Surge Protection	Integrated
DC Surge Protection	Integrated
DC Over/Under-voltage Protection	Integrated
AC Over/Undervoltage Protection	Integrated
AC Over/Underfrequency Protection	Integrated
Valley Peak Time Setting	Integrated
Ground Fault Monitoring	Integrated

Manufacturer Information

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