

AiO Series Energy Storage System

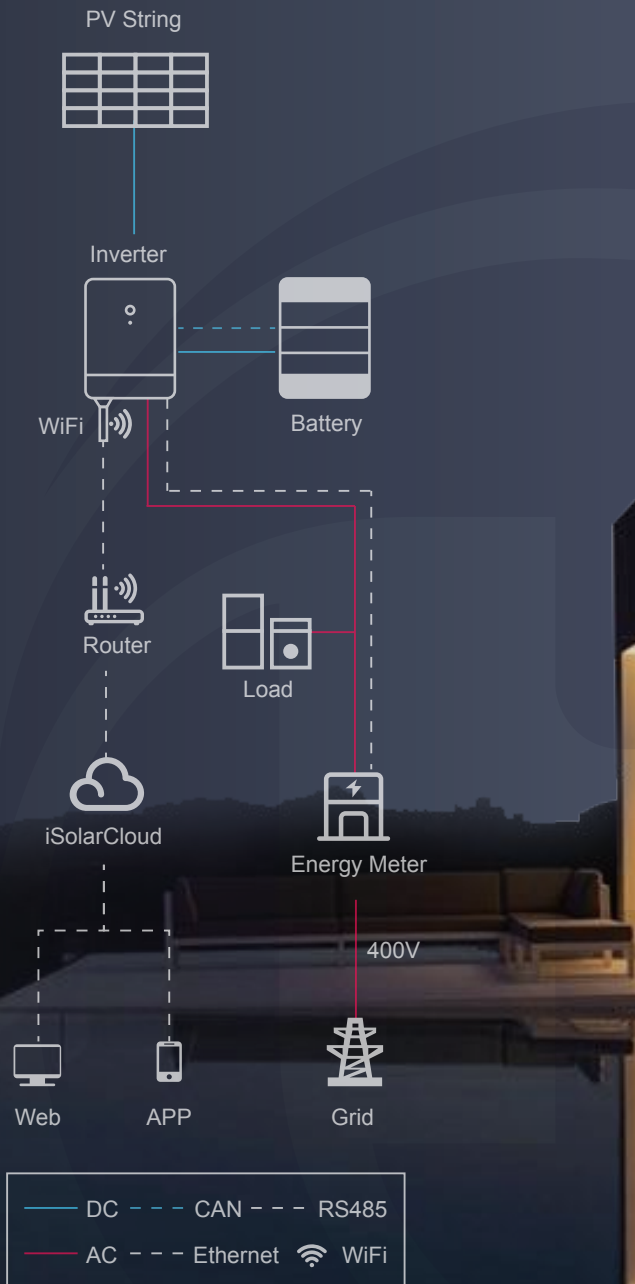


The Haidi All-In-One Solar Storage System is a ground mount installation commercial solar battery storage system. It is suitable for villa or small hotel as an off grid solar energy commercial battery backup system. The AiO20500 provide the 50kWh per day solar system LiFePo4 battery working and compatible with different brand inverters by CAN or RS485 protocols. the default SOC value and one-click battery charge further enhance safety.

With a daily influx of 50kWh/100kWh of solar power into your home, you could sustain continuous operation of your desktop computer for a duration of 13 days, roughly equivalent to two weeks. For a 2.5-ton central air conditioning system, it could run for approximately 14.3 hours, emphasizing the substantial energy consumption of air conditioning. Assuming you don't run the A.C. continuously all day, solar power could effectively cover your home's cooling needs.



All-In-One Solar Storage System



Basic Descriptions

The battery system is designed for commercial and also residential solar energy storage system. It's a combination robust BMS and compatible with different brand hybrid inverters, MPPT. Customer simply connect solar panels and grid AC to this system. This AiO20500 20kWh/50kWh solar storage system comes with 7pcs rack mount installation type Lithium iron batteries. 7 battery modules connection in series directly or with a busbar for large amount discharge/charging current.

Features



Safety operations, no explosion, no pollution



Longer life span up to 8000 times



CAN communication or RS485



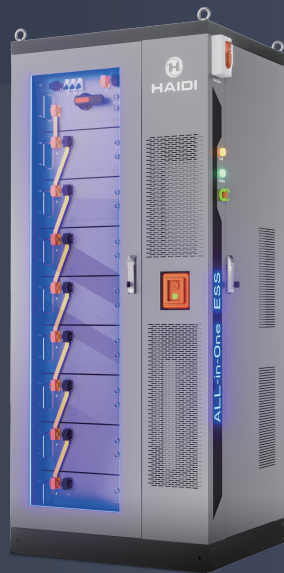
Longer warranties up to 10 years

Technical Parameters

Model No.

AiO20500

AiO50100



Battery System Parameters

Rated Voltage(Vdc)	512	
Rated Capacity(Ah)	100	200
Rated Energy(Kwh)	51.2	102.4
Charging Current Max (A)	50	100
Discharge Current Max (A)	100	200
Overall Dimension (mm)	W852*D750*H2000	W1400*D850*H2000
System Weight (kg)	800	1500
Operating Voltage(Vdc)	400~584	
Discharge Depth	95%	
Communication Port	CAN or RS485	
Protection Grade	IP54	
Cycle Llife	>6000, 25°C	
Design Life	15+ Years (25°C/°F)	
Charging Temperature Range (°C)	0~50	
Discharge Temperature Range (°C)	-20~60	

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Technical Parameters

Battery Module Parameters

Module Rated Voltage(Vdc)	64
Rated Capacity(Ah)	100
Operating Voltage(Vdc)	50~73
Rated Energy(Kwh)	6.4
Max Working Current (A)	100
Module Size(mm)	D616*W400*H160
Weight (kg)	53

Inverter Technical Parameters

PV String Input Data

Max. DC Input Power (W)	28000	65000
Max. DC Input Voltage (V)	1000	1000
MPPT Range (V)	200-880	150-850
Rated DC Input Voltage (V)	720	600
No. of MPP Trackers	4	4
PV Input Current (A)	50	144

AC Output Data

Rated AC Output And UPS Power (kW)	20	50
AC Output Rated Current (A)	29	75.8
Max. AC Output Rated Current (A)	33.4	83.4
Max. Efficiency	97.80%	
Euro Efficiency	97.00%	
MPPT Efficiency	99.90%	

Grid Type Three Phase

Output Frequency and Voltage 50/60Hz; 3L/N/PE 220/380, 230/400Vac

Integrated PV Input Lightning Protection, Anti-islanding Protection, PV String Input Reverse Polarity Protection, Insulation Resistor Detection, Residual Current Monitoring Unit, Output Over Current Protection, Output Shorted Protection, Surge Protection