BSLBATT®
Best Solution Lithium Battery

AIO 8K10US HESS

All in one Residential Energy Storage System



8 kW / 10 kWh
Smart AIO ESS

The AIO 8K10US HESS is a versatile home hybrid energy storage system that highly integrates the battery, BMS, inverter, and EMS into a single system. It features flexible compatibilit y (connectable to solar panels and the grid), intelligent energy management functions (multi-mode operation and remote mo nitoring), and robust safety features (overvoltage protection and islanding protection).

- UPS-level switchover time < 10ms
- 120% peak load output @10S
- Support parallel connection up to 2 units
- Remote monitoring and management with PC or mobile app.
- MPPT efficiency is as high as 99%
- Multiple charging and power supply modes

Model	AIO 8K10US HESS
Battery Side Parameters	
Cell Type	205Ah / 3.2V Prismatic LFP Cell
Cell Configuration	1P16S
Nominal Voltage	51.2V
Nominal Capacity	205Ah
Nominal Energy	10.49kWh
Operating Voltage Range	47V~55V
Standard Charge Current	100A
Standard Discharge Current	100A
*Max. Continuous Charge/Discharge Current	160A/180A
Cycle Life	≥6,000 cycles (at 80% DOD, 0.5C rate, 25℃)

PV Side Parameters		**AC Ouput Parameters**	
Maximum DC Input Power	5000W+5000W	Rated Output Power (Per Phase)	8000W
Maximum DC Input Voltage	500V	Rated Output (Same Phase)	6000W
Start-up Voltage	120V	Rated Output Voltage	120V/240Vac
MPPT Operating Voltage Range (at Full Load)	200V~450V	Rated Output Current	33.3A
Maximum DC Input Current	16A+16A	Output Frequency	50/60Hz
Maximum DC Short-Circuit Current	24A+24A	Power Factor	＞0.99
Number of MPPT Trackers	2	AC Connection Type	L1+L2+N+PE

AC Input Parameters	
Per-Phase AC Input Range	85~140Vac
Frequency Range	47~55Hz/57~65Hz
Max. AC Input Current	50A
Efficiency	
Max. Efficiency (Battery to Load)	>93%
General Parameters	
Operating Temperature Range	-20℃~55℃
Operating Humidity Range	10% to 90% RH (Non-condensing)
Storage Temperature Range	0℃~35℃
Operating Altitude	3000m (2000m ≤ No Derating)
Installation Environment	Indoor
Cooling Method	Natural Cooling
Fire Safety / Fire Protection	Pack-Level Aerosol Fire Suppression Device (Optional)
Communication Interface	RS485/232/WIFI
Ingress Protection (IP) Rating	IP20
Dimensions (W*D*H, mm)	600*240*948（±3）
Weight	110kg±3%
Warranty	5 Years

Note: *160A/180A refers to the maximum charge/discharge current on the battery side at the inverter terminals;
A battery combiner box is required when three or more units are connected in parallel.

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