

ESS-LB5-W01

5kWh Low-voltage Battery System



High Safety

Cathode material is made from LiFePO4 with safety performance; The system intelligent BMS can automatically manage charge and discharge state and balance current and voltage of each cell.



High Performance

Automotive-grade anti-interference design to withstand strong and complex electromagnetic environments



Flexible Applications

Support wall-mounted, saving installation space. Modular design, Supports 1 to 16 expansions, adaptive control strategies. Suited to residential and commercial applications for increasing the self-consumption ratio.



Eco-friendly

The whole module is non-toxic, non-polluting and environmentally friendly.



LB5-W SERIES

LOW-VOLTAGE BATTERY



Model	ESS-LB5-W01
Main Parameter	
Battery Chemistry	LiFePO4
Capacity (Ah)	100Ah
Nominal Voltage (V)	51.2
Operating Voltage (V)	43.2~58.4
Nominal Energy (kWh)	5.12
Usable Energy (kWh)[1]	4.6
PACK Charge/Discharge Current (A)[2]	50
System Charge/Discharge Current (A)	100
Scalability	Max. 16 pcs pack in parallel
Other Parameter	
Recommend Depth of Discharge	90%
Dimension (W*H*D mm)	420*580*145
Weight Approximate (kg)	45
Master LED Indicator	5LED (SOC:20%~SOC100%), 2LED (working, alarming)
IP Rating of Enclosure	IP20
Operating Temperature	Charge:0°C~55°C / Discharge: -20°C~55°C
Storage Temperature	-20°C~60°C
Humidity	20%~90%
Altitude	≤2000m
Cycle Life	≥6000 (25°C±2°C, 0.5C/0.5C, 90%DOD, 70%EOL)
Installation	Wall-Mounted
Communication Port	CAN
Certification	UN38.3
[1] 90% DOD, 0.2C charge & discharge at 25°C.System usable energy may vary due to system configuration parameters. [2] The current is affected by temperature and SOC.	