

p.n. BOS-W

BOS-W LITHIUM BATTERY 5.12KWH INCLUDE STAND, HIGHT VOLTAGE 100AH



Smart Protection: Safeguards against over-discharge, over-charge, over-current, and extreme temperatures.

Safe & Reliable: Utilizes LFP technology for long-lasting performance with minimal self-discharge.

Flexible Connectivity: Supports multiple battery modules in parallel; compatible with USB and remote upgrades.

Wide Operating Temperature: Functions efficiently in temperatures ranging from -20°C to 55°C.

High Cycle Life: Over 6000 cycles, ensuring longevity and reduced total cost of ownership.

User-Friendly: Includes CAN2.0/RS485 communication ports and status indicators for easy monitoring.

Main Parameter

Cell Chemistry	LiFePO ₄	
Module Energy (kWh)	5.12	
Module Nominal Voltage (V)	5.12	
Module Capacity (Ah)	100	
Battery Module Number	BOS-W80	
Battery Module Qty In Series (Optional)	16 (Max)	
System Nominal Voltage (V)	819.2	
System Operating Voltage (V)	704 ~ 934.4	
System Energy (kWh)	81.92	
System Usable Energy (kWh) ¹	73.73	
Rated DC Power (kW)	81.92	
Charge / Discharge Current (A) ²	Recommend	50
	Nominal	100
	Peak Discharge (2 mins, 25°C)	125
Working Temperature (°C)	Charge: 0 ~ 55 / Discharge: -20 ~ 55	
Status Indicator	Yellow: Battery High Voltage Power On Red: Battery System Alarm	
Communication Port	CAN2.0 / RS485	
Humidity	5% ~ 85%RH	
Altitude	≤3000m	
IP Rating of Enclosure	IP20	
Dimension (W × D × H, mm)	1060 × 602 × 1629	
Weight Approximate (kg)	837	
Installation Location	Rack Mounting	
Storage Temperature (°C)	0 ~ 35	
Recommend Depth of Discharge	90%	
Cycle Life	25±2°C, 0.5C / 0.5C, EOL70% ≥6000	
Certification	UN38.3	

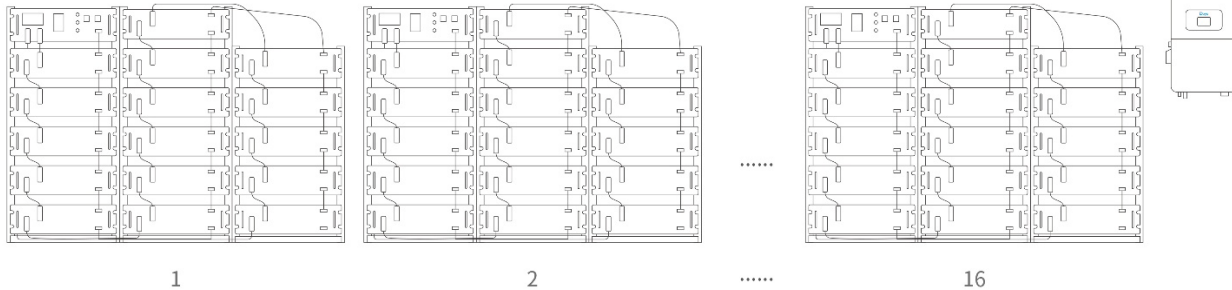
¹ DC Usable Energy, test conditions: 90% DOD, 0.3C charge & discharge at 25°C. System usable energy may vary due to system configuration parameters.

² The current is affected by temperature and SOC.

Typical Application Scenarios

BOS-W80

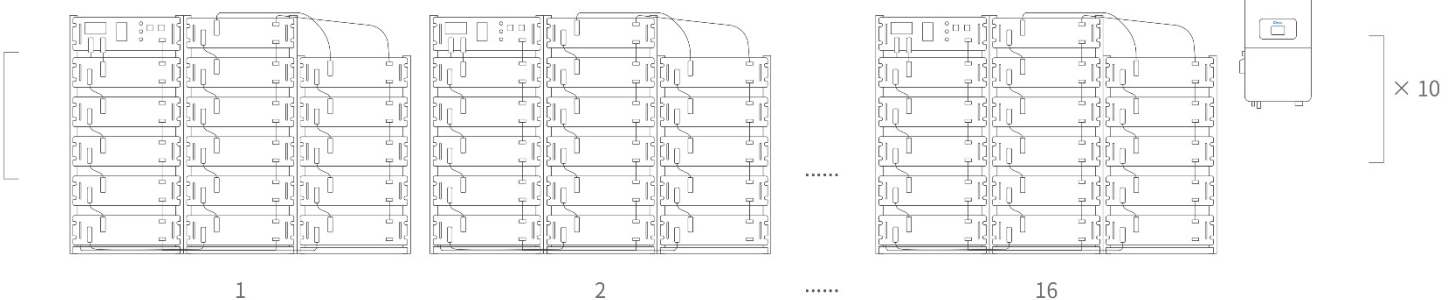
Inverter 80kW



Maximum support for 16 clusters of batteries in parallel

BOS-W80

Inverter 80kW



Maximum support for 10 inverters in AC parallel operation