

High Voltage 19-Inch Batteries



ENERGY STORAGE FOR INDUSTRIAL PLANTS



Energy Storage: Driving Carbon-Neutral and Self-Sufficient Economies

In the quest for sustainable energy solutions, energy storage emerges as a pivotal player, facilitating the transition to carbon-neutral and self-sufficient economies. Its versatility empowers industries to optimize energy source selection, mitigate price volatility, balance energy grids, promote renewable integration, and enhance economic competitiveness.

By storing excess energy and deploying it strategically, energy storage systems offer cost savings, stability, and efficiency, making them essential for sustainable energy management and industrial success in the face of environmental challenges.

APPLICATIONS

- + Peak Shaving
- + Backup Power
- + Load Shifting
- + Grid Flexibility Services
- + UPS / Bridging Power
- + Black Start
- + Maximization of Usable Energy



Basic Properties	PBH-51100	PBH-512100	PBH-768100	PBH-768200
Cell Type	LiFePO4 - Prismatic	LiFePO4 - Prismatic		
Nominal Voltage	51.2V	512V	768V	
Nominal Capacity (*)	100Ah	100Ah		200Ah
Nominal Energy Capacity	5.12kWh	51.2kWh	76.8kWh	153.6kWh
Operating Voltage Range	44V - 56.8V	440V - 568V	660V - 852V	
Max. Charge Voltage	56.8V	568V	852V	
Standard Charge/Discharge Current	50A / 50A	50A / 50A		100A / 100A
Max. Cont. Charge/Discharge Current	100A / 100A	100A / 100A		200A / 200A
Limited Charge Current	10A			
Cycle Life (*)	≥6000 Cycles			
Normal Operating Temperature	25°C			
Charging Temperature	0~50°C			
Discharging Temperature (**)	-10~50°C			
Storage Temperature	-20~55°C	-20~50°C		
Self Discharge	≤3%/month (30-40% SOC ,25°C)			
Warranty	10 Years			
Physical Properties				
Communication	CAN, RS485	CAN		
Scalability	Max. 15 units in series	Max. 15 units in parallel	Max. 7 units in parallel	
Cooling	Fan			
BMS Protections	UV, OV, OC, UT, OT, SC	UV, OV, OC, UT, OT, SC		
LED Indicators	Alarm, Run, SOC	Alarm, Run, SOC		
Circuit Breaker	No	Integrated to Master BMS Unit		
Physical Properties				
Protection Level	IP20			
Humidity	5%-85% RH (non-condensing)		5% - 85% RH (non-condensing)	
Altitude	<3000 m			
Dimension (WxDxH)	446x532x160 mm	629x610x2251 mm	1258x610x2258 mm	1887x610x2258 mm
(without connector and handle)	(19 Inches - 3.5U)	(19 Inches - 50U)	(19 Inches - 50U)	(19 Inches - 50U)
Weight	40±1 kg	540±10 kg	870±15 kg	1600±30 kg

(*) Test Conditions: 25°C, 90% DOD, 0.5C Charge/Discharge
 (**) Performance may vary in different conditions