

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



High Voltage 19-Inch Batteries



Basic Properties	PBH-51100	PBH-512100	PBH-768100	PBH-768200
Cell Type	LiFePO ₄ - Prismatic			
Nominal Voltage	51.2V	512V	768V	
Nominal Capacity		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			100A / 100A
Max. Cont. Charge/Discharge Current	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
Residual Capacity Loss	≤ 3% /month (25°C ± 2°C)			
Warranty	10 years			
Functional 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 (with PDU)			
LED Indicators	Alarm, Run, SOC			
Circuit Breaker	No	Integrated to Master BMS Unit		
Mechanical Properties				
Protection Level	IP20			
Humidity	5% - 85% RH (non-condensing)			
Altitude	<3000 m			
Dimension (WxDxH) (without connector and handle)	446x532x160 mm (19 Inches - 3.5U)	629x610x2251 mm (19 Inches - 50U)	1258x610x2258 mm (19 Inches - 50U)	1887x610x2258 mm (19 Inches - 50U)
Weight	48±10 kg	540±10 kg	870±15 kg	1600±30 kg

(*) Test Conditions: 25°C, 70% SOH
 (**) Performance may vary in different conditions