
PKNERGY 51.2V 100Ah 5Kwh Powerwall Battery for Home Energy Storage

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51.2V 100Ah 5Kwh Wall-Mount LiFePO4 Battery with Roller is pack designed as an Energy storage system ess battery module. It can be used in series or in parallel. It is compatible with all industry-leading standard solar charge controllers, inverters.

Superior chemical and thermal stability, Lithium Iron Phosphate battery pack is the safest in the lithium-ion family. It includes Canbus, RS485 communication , Modules can be connected in parallel, and paralleled modules that communicate through RS485. Battery modules communicate with the inverter via the CAN interface. Compatible with CANBUS protocol, compatible with Growatt, Goodwe, Deye inverter. Supports parallel, Best for energy storage, and more extended cycle life Module Applications. This 5kwh energy storage system battery is easy to install and keep in parallel households, small industrial businesses, tiny houses, and homes.

Features

- 48v LFP-based ESS, long life expectancy of 10+ years.
- Battery bank Expandable in parallel as power needs to increase.
- Operates at 90% efficiency for more than 7000 times cycles.
- Offer up to 100% depth of discharge.

- integrated battery management system (BMS).
- Flexible control that covers all commercial fields.
- Quick and Easy Installation, Maintenance-free.

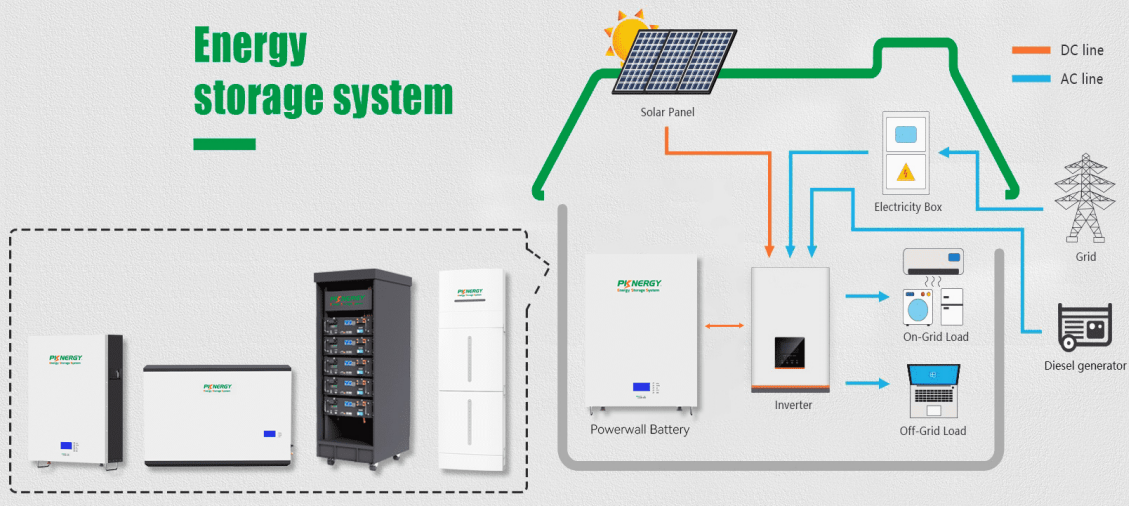
Battery Pack specifications

Model	PKNERGY-5000W	PKNERGY-7000W	PKNERGY-10000W
Nominal Voltage	51.2V(16series)		
Capacity	100Ah	150Ah	200Ah
Energy	5120Wh	7680Wh	10240Wh
Internal Resistance	≤ 30mΩ		
Cycle Life	≥ 7000 cycles @ 90% DOD, 25°C, 0.5C		
Design Life	≥ 10 years		
Charge Cut-off Voltage	56.0V±0.5V		
Max. Continuous Work Current	100A/150A(Can choose)		
Discharge Cut-off Voltage	45V±0.2V		
Charge Temperature	0°C~60°C (Under 0°C extra heating mechanism)		
Discharge Temperature	-20°C~60°C (Under 0°Cwork with reduced capacity)		
Storage Temperature	-40°C~55°C @ 60%±25% relative humidity		
Dimensions	680 x485 x180(220)mm		
Weight	Approx: 62kg	Approx: 79kg	Approx: 98kg
	RS232-PC,RS485(B)-PC		
Protocol (optional)	RS485(A)-Inverter,Canbus-Inverter		
Certification	UN38.3,MSDS,UL1973(Cell),IEC62619(Cell)		

Dimension

Unit (mm)					
L (length)	680	W (width)	485	H (thickness)	180
L (Exposed wire length)	/	WIRE (Leader)	/	Terminal model	8mm (Quick plug)
remarks	Output line : Wire diameter 35mm ² , length 2m				

Energy storage system



MATCH ALL 48VDC HYBRID INVERTER



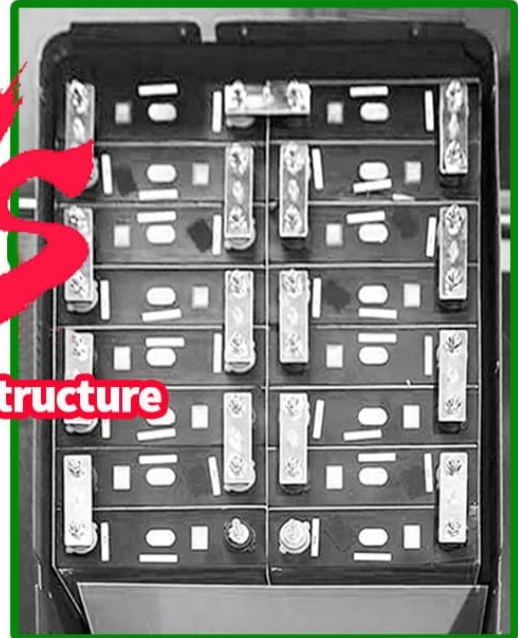
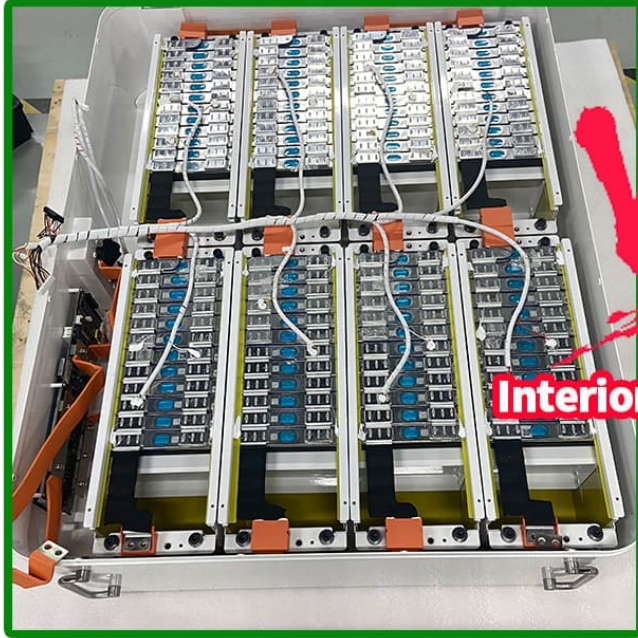
Certifications



Quality Control

100% Full Inspection to Ensure the Quality of the Battery
from the Battery Cell to Battery Pack





Interior structure

PKNERGY -- Laser Welding

Other --Screw Thread

Factory Show



Safe Package



Our Cases



Jamaica 20Kwh Powerwall LifePO4 Battery for Home Energy Storage



Bulgaria 20Kwh Wall Mounted LifePO4 Battery



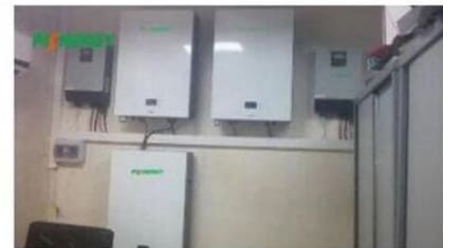
Canada 20Kwh Wall Mounted LiFePo4 Battery Off-Grid Home Energy Storage



Lebanon 15Kwh Powerwall LifePO4 Battery



Puerto Rico 15Kwh Powerwall LifePO4 Battery



Sri Lanka 10Kwh Powerwall LifePO4 Battery



Dominican 20Kwh Powerwall LifePO4 Battery



Spain 10kW On-Grid Powerwall LiFePO4 Battery Solar System



Nigeria 20Kwh Powerwall LiFePo4 Battery

Become PKNERGY Agent or Distributor

We are continuously seeking agents or distributors,
who are eager and passionate about representing PKNERGY
and extending our global reach and sales worldwide.

WHY PKENERGY

- Advanced, market-leading battery solutions with competitive pricing.
- Once the partnership is concluded, we will grant the highest authority and the best service to our distributors to protect the rights and interests of distributors.
- Provide marketing support, including website construction, product photos, promotion, etc.
- Pknergy can develop and design new products according to the market feedback of distributors/agents to expand the market and meet the needs of customers.
- Pknergy engineers will train distributors/dealers engineers online to improve their professionalism.
- Provide brochures and promotional gifts such as pens, consumer batteries, battery holders, flashlights, T-shirts, etc. The amount of free goods is calculated at about 1% of the order value.

WARRANTY SERVICE

Pknergy has professional engineers conduct after-sales online.

If distributors/dealers encounter a complex problem, Pknergy engineers will come to the local area to solve it.

To become the Distributor or Dealer, please send an email to sales@pknergy.com or fill out the form for more information.



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Product

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<https://www.pkenergy.com/pkenergy-51-2v-100ah-5kwh-powerwall-battery-for-home-energy-storage-product/>