

PKENERGY 12V 100Ah LiFePo4 Battery Pack



Golf Carts



RV Application



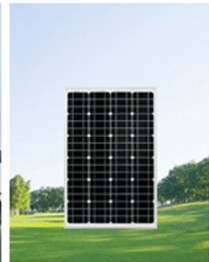
Wind Power System



Wheelchairs



PHEV



Residential Backup Power



Reliable and Long-Lasting Energy Storage Solution

The PKENERGY 12v 100ah Lifepo4 Battery is the perfect choice for a reliable and long-lasting energy storage solution for your home and small and medium enterprises (SMEs). The battery's ultra-modern design, with a highly qualified research and development team, ensures extreme reliability and an ultra-long service life.

Key Features of the PKENERGY 12V Solar Battery

The PKENERGY 12v 100ah Lifepo4 Battery features an extremely safe and stable chemistry, with PCB and/or BMS built inside to balance and protect the battery. Which really catch the eye as a flexible and effective option. They bring perks like high energy density, a long cycle life, and not needing much upkeep. It offers a long life-cycle and can be circularly used up to 6000 times, which is eight times more than a lead-acid battery. Moreover, the battery is lighter, with the best power-to-weight ratio of 1/3 of a lead-acid battery's weight. The battery also offers good performance at high temperatures and has high temperature resistance. With a low self-discharge rate of less than 3% monthly, the battery has no memory effects and highly efficient charge. The environmentally friendly battery is clean and green energy, posing no pollution on our environment. These features make them best batteries for solar off-grid setups, guaranteeing a fulfilling and independent energy journey.

Performance And Test Conditions of the PKENERGY 12V Solar Battery

Using the technology of lithium iron phosphate cell, the PKENERGY 12v 100ah Lifepo4 Battery offers superior safety, thousands of cycles, 100%DOD, under normal conditions. It has built-in automatic protection for over-charge, over-discharge, over-current, and over-temperature and is free of maintenance. The battery features internal cell balancing and is of a lighter weight, about 40%~50% of the weight of a comparable lead-acid battery. It is a replacement for a lead-acid battery and has a wider temperature range of -20°C~60°C. It supports series application expansion (up to 25.6V) or two in parallel.

Specification

Electrical Characteristics	Nominal Voltage	12.8V
	Nominal Capacity	100Ah@0.5C
	Energy	1280Wh
	Internal Resistance	≤ 25mΩ
	Cycle Life	6000 Cycles @ 0.5C 100% DOD guaranteed before del
	Charge retention and capacityRecovery capability	Standard charge the battery, and then put aside at room tem 28 d or 55 °C for 7d, Charge retention rate ≥ 90%, Recovery r e ≥ 90
Standard Charging	Max.Charging Voltage	14.2-14.6V
	Charging Mode	0.2C to 14.6V, then 14.6V,charge current to 0.02C (CC
	Charging Current	20A
	Max.Charging Current	50A
Standard Discharging	Discharging Current	20A
	Max. Continuous Current	50A
	Max.Pulse Current	400A(<1.5S)
	Discharging Cut-off Voltage	10.0V

Operating Condition	Charge Temperature	0°C to 45°C(32°F to 113°F) @60±25% Relative Humid
	Discharge Temperature	-20°C to 60°C(-4°F to 140°F) @60±25% Relative Humid
	Storage Temperature	0°C to 45°C(32°F to 113°F) @60±25% Relative Humid
	Water Dust Resistance	IP55
	Casing	Plastic
	Dimension(L*W*H)	307*169*208mm
	Weight	Approx : 11Kg
	Terminal	M8

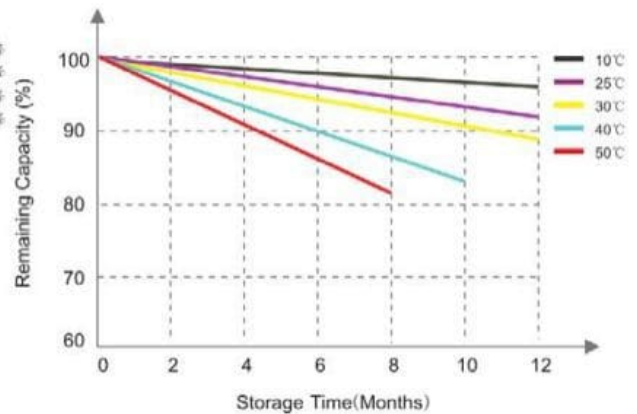
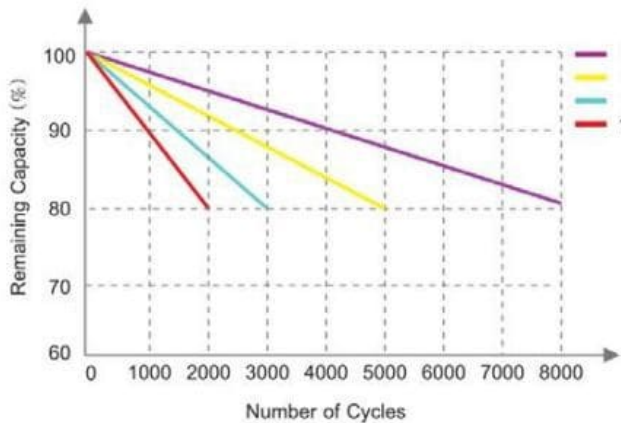
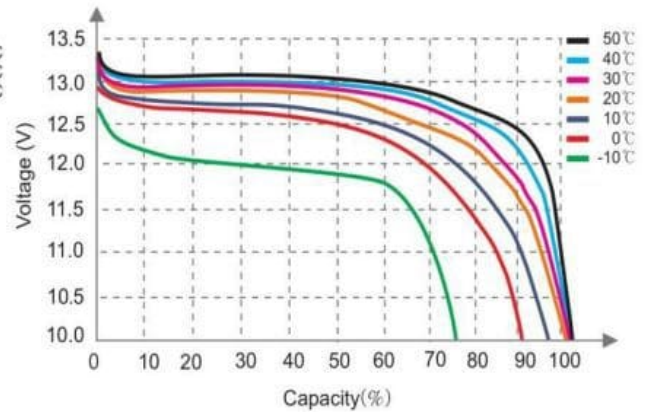
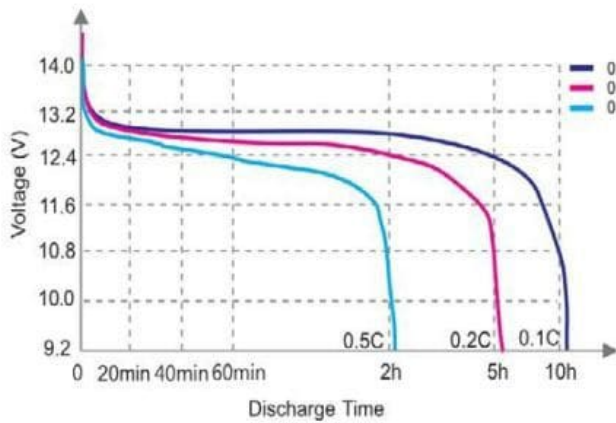
Application of the PKENERGY 12V Solar Battery

The PKENERGY 12v 100ah Lifepo4 Battery is suitable for various applications, including UPS, solar and wind power systems, golf carts, electric vehicles, e-bikes, e-rickshaws, and lighting.

The best solution for Solar Battery

Investing in the PKENERGY 12v 100ah Lifepo4 Battery is a wise decision for businesses and individuals looking for a reliable, durable, and energy-efficient solution. The battery's long lifespan and advanced Battery Management System (BMS) technology make it ideal for any solar off-grid system, small and medium enterprises (SMEs), or home energy storage applications.

Discharge performance graph



Safe Characteristic

No.	Item	Testing Instruction	Re
1	Over- charge test	Charge in accordance with the following two ways (Choosing one between the two). (1) Charge at 1 C current for 9 0 min or until voltage of some single battery reaches 5 . 0 V (stop test when fulfills either condition). (2) Charge at 3 C current until the voltage of some single battery reaches 10 . 0 V, then stop the test.	The no or
2	Over- discharge test	Charge the battery. Place at 20±5°C for 1h, then discharge in 1 / 3 C current at same emperature until some cell' s voltage is 0 V	The no or
3	Short- ircuiting Test		

After charge batteries, place at 20 ± 5 °C for 1 h. Short the battery for 1 0 min, the external circuit resistance should be less than 5 mΩ.

Become PKNERGY Agent or Distributor

We are continuously seeking agents or distributors,
who are eager and passionate about representing PKKENERGY
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.



**CONTACT US TO LEARN MORE
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Product link : <https://www.pknergy.com/12v-100ah-lifepo4-battery-pack-product/>