



Stable and Performance Lithium Battery Pack for Residential and Small Commercial Applications

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: SHEL
- Certification: UN38.3, IEC62619, UL1973, CE-EMC and UL9540
- Model Number: P1P20WS
- Minimum Order Quantity: 1 unit
- Price: consult prices online
- Packaging Details: consult online
- Payment Terms: T/T
- Supply Ability: consult online



Air-Cooled PACK -P1P20WS

Product Specification

- Cell Type: LFP
- Rated Capacity: 280Ah
- Grouping: 1P20S
- Rated Energy: 17.92kWh (rated Conditions)
- Rated Voltage: 64Vdc
- Highlight: **residential lithium battery storage ,
residential commercial energy solutions,
commercial lithium battery storage**

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Product Description

Stable and Performance Lithium Battery Pack for Residential and Small Commercial Applications

The air-cooled PACK consists of LFP cells, grouping in 1P20S. With built-in BMU, HV connectors, fans, and fixed structural components, these accessories enable the PACK module to have protection functions such as overvoltage, undervoltage, overcurrent, insulation, short circuit, and overheat. Combined with PCS, it achieves energy charge and discharge. This PACK is compatible with 1500V platform.

Product Description

The **LFP-Based Energy Storage Module** is a compact and highly efficient energy storage solution designed for residential and small commercial applications. With a **rated capacity of 280Ah** and a **rated energy of 17.92kWh**, this module delivers stable and reliable performance under a wide operating voltage range of **56-72Vdc**. Built with advanced **Lithium Iron Phosphate (LFP)** technology, it ensures safety, durability, and long-term performance, boasting a cycle life of **≥8,000 cycles**. The module features **air cooling** for thermal management, allowing it to operate efficiently in ambient temperatures ranging from **-20°C to 50°C** (discharging) and **0°C to 55°C** (charging). Its lightweight design (**143kg**) and compact dimensions (**470*950*230mm**) make it ideal for easy installation in tight spaces. The product's compliance with international standards, including **UN38.3, IEC62619, UL1973, CE-EMC, and UL9540**, ensures top-tier safety and quality. Designed for high-efficiency energy storage, this module is an ideal choice for users seeking a reliable, scalable, and environmentally friendly power solution.

Features



Excellent Performance

laser welding for excellent cells consistency and superior charging/discharging performance.



Long Cycle Life

Over 8,000 times cycle life and a designated lifespan of up to 10 years



Safe and Reliable

Optimized ventilation system, active thermal management system.



Flexible Configuration

Standard & modular design, on-demand flexible expansion.

ECOP1P20WS	
Cell Type	LFP
Rated Capacity	280Ah
Grouping	1P20S
Rated Energy	17.92kWh (rated conditions)
Rated Voltage	64Vdc
Recommended Operating Voltage	56-72Vdc
Rated Charge/Discharge Rate	0.5C
Cooling	Air cooling
CycleLife	≥8,000 times
Storage Environment	0~35°C,RH<75%(non-condensing)
Operating Temperature	-20°C-50°C (discharging)/0-55C(charging)
Ingress Rating	IP20
Dimensions(W*D*H)	470*950*230mm
Weight	143kg
Compliance	UN38.3,IEC62619,UL1973,CE-EMCand UL9540

Application Scenarios

Residential Energy Storage and Backup Power:

The compact size and lightweight design of this module make it perfect for home energy storage systems. It integrates seamlessly with rooftop solar panels, allowing homeowners to store surplus solar energy during the day and utilize it during peak demand or nighttime hours. The module's high cycle life and reliable performance ensure long-term energy cost savings and enhanced energy independence. Additionally, it serves as a robust backup power source during grid outages, maintaining uninterrupted operation of critical home appliances.

Small Commercial Energy Management:

Designed to meet the needs of small-scale businesses, this energy storage module supports peak shaving and load shifting, enabling commercial users to reduce electricity bills by managing energy consumption efficiently. The module's compatibility with existing energy management systems and its safe operation under diverse environmental conditions make it an excellent choice for small retail stores, offices, and workshops aiming to optimize energy use while maintaining sustainability goals.

The **LFP-Based Energy Storage Module** redefines flexibility and reliability in energy storage, offering a scalable solution for modern energy challenges while prioritizing safety, efficiency, and ease of use.

Shipping Methods

Supports global air and sea shipping.



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