



LSRR51 Series The Versatile and High-Performance Lithium Battery Storage for Residential

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: LS
- Certification: CE IEC62619 UL1973 UN38.3
- Model Number: LSRR51
- Minimum Order Quantity: 50 units
- Price: consult prices online
- Packaging Details: consult online
- Payment Terms: T/T



Product Specification

- Nominal Voltage: 51.2V
- Nominal Capacity: 100Ah
- Nominal Energy: 5.12kWh
- Usable Energy: 4.92kWh
- Cycle Life: ≥ 6000 Cycles @90%DOD
- IP Rating: IP20
- Communication: RS485 / CAN
- Certification: CE / IEC62619 / UL1973 / UN38.3
- Highlight: residential lithium battery storage,
residential commercial energy solutions,
ip20 lithium battery storage

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Product Description

LSRR51 Series The Versatile and High-Performance Lithium Battery Storage for Residential

LSRR51V100AH-LFP

Residential Rack Energy Storage

LSRR series battery packs are rack type residential lithium batteries, designed entirely for residential ESS applications. With our battery technology, you can easily combine it with any mainstream inverter in different scenarios to reduce your electrical bill & back-up your power during grid outage or when power is unavailable



Modular

Support up to 32 units in parallel, scale from 5 kWh to 160 kWh configuration without external controller

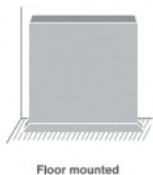


4 types of installation

Compact & Flexible. 3U (133mm) standard height design. Optional bracket kits for different installation scenarios.



Wall mounted



Floor mounted



Rack mounted



Stack

Product Description:

The LSRR51 series is a rack-mounted residential lithium battery energy storage solution, ideal for both grid-tied and off-grid applications. These battery packs offer a scalable and modular design, supporting up to 32 units connected in parallel, allowing for a storage capacity from 5 kWh to 160 kWh. Featuring 4 installation types—wall-mounted, floor-mounted, rack-mounted, and stack—the LSRR51 series is highly flexible and space-efficient. Equipped with lithium-iron phosphate (LiFePO₄) cells, the battery offers superior safety, long cycle life, and reliable performance. It is compatible with most mainstream inverters and integrates easily into various residential energy storage systems.

Items	LSRR51V100AHLFP
Nominal voltage	51.2V
Nominal capacity	100Ah
Nominal energy	5.12kWh
Usable energy	4.92kWh
Operating voltage range	44.8V~56.0V
Charge voltage	56V
Float voltage	54.6V
Recommended charge current	50A
Max.charge current	70A
Recommended discharge current	50A
Max.discharge current	100A
Communication	RS485/CAN
Peak discharge current/unit	101~119A@5mins 120~149A@15S
IP rating	IP20
Cycle life	≥6000 cycles @90%DOD
Net weight/unit	47kg
Gross weight/unit	50kg
Dimension of product/unit	482*133.5*460mm
Dimension of packaging/unit	574*217*516mm
Cell type	Lithium-iron phosphate (LiFePO ₄)
Design life	15 years
Operation temperature	-10~50°C(14~122°F)
Storage temperature	-10~45°C(14~113°F)
Relative humidity	5%-90%,No condensation
Install altitude	≤ 4000m
Install location	Indoor
Installation	Wall mounted/Floor mounted/Stack/Rack mounted
Certification	CE/IEC62619/UL1973/UN38.3

Application:

The LSRR51 series is perfect for residential homes, villas, farms, and small commercial applications requiring reliable energy storage and backup power. The flexible installation options make it suitable for use in various environments and setups, whether indoors or outdoors.

Shipping Methods

Supports global air and sea shipping.

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