

LESSO



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



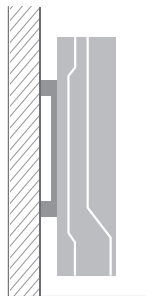
Modular

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

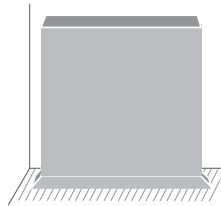


4 types of installation

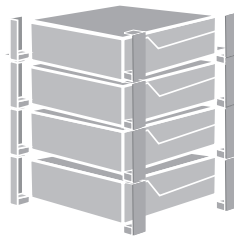
Compact & Flexible. 3U (133mm) standard height design. Optional bracket kits for different installation scenarios.



Wall mounted



Floor mounted



Rack mounted



Stack


CE UK CA UN38.3

Items	LSRR51V100AH-LFP
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*526mm
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


[1] Test conditions: 90% depth of discharge (DOD), 0.2C rate charge & discharge at 25°C

[2] Available energy of the system may be different from various inverter brands


[3] Derating occurs when the operating temperature from -10°C to 10°C & 40°C to 50°C




1 Battery Module Rack




2 RS485 or CAN Communication Cable for Battery & Inverter




3 Quick Plug Connector



4 Output Cable kit



5 Parallel Cable kit



6 Battery Cabinet

The above installation package is for your reference. Contact our sales team to choose accessories based on your needs!

1 Unique rack for stacking installation battery modules.

2 The data exchange between the battery and the inverter is necessary, and some models use RS485 mode or CAN mode for communication. Please refer to the user manual for specific model information. The length of this communication cable is 2 meters.

3 The terminals of the battery are equipped with specially designed quick plug connector for easy installation and disassembly. Can be used for the battery parallel wires & output wires fabrication.

4 Pre fabricated with quick plug connector and pre-insulated terminal, which use for wiring between battery and inverter or combiner box. The length of this cable kit is 2 meters with 25 mm².

5 Pre fabricated with quick plug connectors, which use for wiring battery parallel connection. The length of this cable kit is 0.25 meter with 35 mm².

6 Battery installation cabinet, there has 6 version for selection. (2/3/6/10/12/16 layers)