



## 204.8V Lithium Battery Storage For Grid Tied And Off Grid Energy Needs

### Basic Information

- Place of Origin: China
- Brand Name: LS
- Certification: TUV CE UN38.3 UL1973 IEC
- Model Number: LSR51
- Minimum Order Quantity: 50 units
- Price: consult prices online
- Packaging Details: consult online
- Payment Terms: T/T

#### Residential Stacked Energy Storage System



### Product Specification

- Nominal Voltage: 204.8V
- Nominal Energy: 10.24 KWh To 25.6 KWh (expandable)
- Cycle Life: 5000 Cycles @ 80% DOD
- Maximum Charging Current: 50A @ 25°C
- Operating Voltage Range: 172.8V To 576V (depending On Configuration)
- Protection: Over-temperature, Over-charge, Low Voltage, Overload, And Short Circuit Alarm Protection
- IP Rating: IP21, Indoor Installation
- Communication: CAN/RS485
- Highlight: **204.8V Lithium Battery Storage, 10.24kWh Lithium Battery Storage, 25.6kWh energy storage lithium battery**

## Product Description

### 204.8V High-Performance Lithium Battery Storage for Grid-Tied and Off-Grid Energy Needs



#### Flexible

High-voltage LiFePO<sub>4</sub> battery solution, single module 51.2V 50Ah 2.56kWh, stackable modular design, convenient transportation and easy installation, it can be stacked from 4 to 10 layers



#### Safe and Reliable

Lithium iron phosphate (LFP) battery cells offer high safety, long lifespan, and high effective power. They are optimized for self-consumption in residential and commercial applications, providing efficient energy utilization. Additionally, they are suitable for high-power emergency backup and off-grid functions



#### Perfect compatibility

Compatible with mainstream inverters in the market. Compatible with CANbus/RS485 communication interface. Suitable for both on-grid and off-grid solar energy storage system solutions

#### Product Description:

The LSRS51V series is a high-performance, residential stacked energy storage system designed to meet both grid-tied and off-grid energy needs. Featuring a modular design with lithium iron phosphate (LiFePO<sub>4</sub>) cells, this battery offers flexibility with the ability to stack from 4 to 10 layers, allowing a scalable energy capacity from 10.24 kWh to 25.6 kWh. The robust design ensures high safety, long lifespan, and superior efficiency, making it ideal for residential and small commercial applications. Compatible with mainstream inverters and capable of integrating with CAN/RS485 communication interfaces, this system provides reliable backup power for uninterrupted energy use.

Type	LSRS51V50AH4S	LSRS51V50AH5S	LSRS51V50AH6S	LSRS51V50AH7S	LSRS51V50AH8S	LSRS51V50AH9S	LSRS51V50AH10S
Parametric Performance							
Battery type	LiFePO <sub>4</sub>						
Battery energy (kWh)	10.24	12.8	15.36	17.92	20.48	23.04	25.6
Nominal voltage (V)	204.8	256	307.2	358.4	409.6	460.8	512

Nominal capacity (Ah)	50	50	50	50	50	50	50
Operating voltage range (V)	172.8-230.4	216-288	259.2-345.6	302.4-403.2	345.6-460.8	388.8-518.4	432-576
Number of battery modules	4	5	6	7	8	9	10
Max. charging current (A)	50A(@25°C)						

Standard charging current (A)	10-25A
Max. discharge current (A)	50A(@25°C)
DOD	80%
Battery cell	Automotive grade lithium iron phosphate battery cell
Cycle life	5000 times @80%DOD
Warranty period	5 years

Warranty	Yes
Compatible inverter	LSRTH6KTL3L,LSRTH8KTL3L,LSRTH10KTL3L,LSRTH12KTL3L,LSRTH15KTL3L or other specified inverter
Protection Function	Over-temperature,over-charge,low voltage,overload and short circuit alarm protection
Display	The working statusinformation of battery,such as SOC,voltage and etc.
Communication	CAN/RS485

General Data					
Dimension(L*W*H MM)	770*280*939	770*280*1114 770*280*1289	770*280*1464	770*280*1631 770*280*1814	770*280*1989
Weight(KG)	147	174 201	228	255 282	309
Color	Gray				
Operating temperature	-20°C-+55°C				
Altitude	4000m(>2000m derating)				
Protectiondegree	IP21,indoor installation				
Noiseemission	<29dB				
Relative humidity	5%-95%				
Cooling	Natural cooling				
Certification	TUV/CE/IEC/UN38.3/UL1973				

#### Application:

The LSR51V series is suitable for various applications including homes, villas, farms, and field power supply systems. It is especially designed for users who require easy installation, with a stackable modular system, and who need flexible energy storage options that scale according to their power needs.

#### Shipping Methods

Supports global air and sea shipping.



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