



Backup Power Solutions LSRTH Series Hybrid Inverters For Essential Electrical Loads

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: LS
- Certification: IEC/EN62109-1/-2 IEC/EN62477-1 IEC/EN 61000-6-1, IEC/EN 61000-6-3
- Model Number: LSRHI
- Minimum Order Quantity: 30 sets
- Price: consult prices online
- Packaging Details: consult online
- Payment Terms: T/T



Product Specification

- Rated Output Power: 3-6 KVA
- Rated Output Current: 13-26 A
- Max Input Power (PV): 4.6-7 KW
- MPPT Efficiency: 99.9%
- Battery Charging Efficiency: 95%
- Protection Degree: IP65
- Grid Voltage Range: 230 V (176-270 V)
- Communication Interface: CAN, RS485
- Highlight: **6kVA Off Grid Inverters, 26A Off Grid Inverters, 13A Hybrid Inverters**

Product Description

Backup Power Solutions LSRTTH Series Hybrid Inverters for Essential Electrical Loads

Product Highlights

Safe and reliable

- Passed IEC/EN62109-1/- 2, IEC/EN62477-1
South Africa NRS097-2-1; 2017, IEC/EN 61000-6-1
IEC/EN 61000-6-3 test certification

User-friendly and flexible

- Support multiple parallel connection
- Support connection with diesel generator
- Compatible with lead-acid and lithium-iron battery

Economical

- Intelligent EMS management function
- Automatic on/off grid switching to ensure important loads operating during the grid network blackout

Product Description:

The LSRTTH series is an advanced, reliable, and efficient residential off-grid inverter with MPPT solar charge control. Designed to support a wide range of energy applications, this inverter provides stable and efficient power output while ensuring protection through intelligent EMS management. With an automatic grid switching feature, the LSRTTH series ensures that critical loads remain operational even during a grid failure. Its compact design, compatibility with lead-acid and lithium-iron batteries, and support for parallel connections make it an ideal choice for homes and small businesses that require reliable, off-grid power solutions.

LSRTH3KTLL LSRTH 3K6TLL LSRTH4KTLL LSRTH 4K6TLL LSRTH 5KTLL LSRTH 6KTLL			
Input Parameter (PV)			
Max.Input Power (kW) 4.6	4.6 6 6 7		7
Max.Input Voltage (V) 550			
MPPT Voltage Range (V)	125-500		
Max.Currentper MPPT(A)	14		
Number of MPPT/ Number of String per MPPT	2/1		
Output Parameter (AC)			
Rated Output Power(kVA) 3	3.68 4 4.6 5		6
Max.Output Current(A) 13	16 17.4 20 21.7		26
Grid Voltage Range(V)	230(176~270)		
Rated Grid Frequency(Hz)	50/60		
Power factor	0.99 leading-0.99 lagging		
THDi	<2%		
Grid Type	L+N+PE		
Battery Parameter			
Battery Voltage Range(V)	40~58		
Max.Charging Voltage (V)	58		
Max.Charging/Discharging Current (A) 95/62.5	95/76.6 95/83.3 95/95.8 95/104.2		95/110
Battery Type	Lithium iron phosphate battery/Leadacid battery		
Communication	CAN,RS485		
Emergency AC Power Supply (EPS)	220-240/110-120(Connect to splil-phase transformer)		
Rated Output Power (kVA) 3	3.68 4 4.6 5		6
Rated Output Voltage (V)	230		
Rated Output Current (A) 13	16 17.4 20 21.7		26
Rated Output Frequency (Hz)	50/60		
Automatic Switch Time(ms)	<20		
THDu	<2%		
Overload Capacity	110%,30S/120%,10S/150%,0.02S		
Normal Parameter			

BatteryCharging/Discharging	95.0%	
Efficiency	97.6%	
Max.Efficiency	97.0%	
MPPT Efficiency	99.9%	
Protection Degree	IP65	
Noise (dB)	<35	
OperatingTemperature Range	-25C-60C	
Cooling Method	Natural cooling	
Belative Humidity	0-95%non-condensing	
Max.Operating AHttitude	No limit below 2000m	
Dimensions of product/packaging(mm)	550*200*520/680*660*330	
Net weight/Gross weight (kg)	25/31	
Transformeress Topology	No	
Night Power Consumption	<3	
Screen &Communication		
Screen	LCD	
Communication	Standard/Optional/Optional//Standard/Standard	
Safety	IEC/EN62109-1/-2,IEC/EN62477-1	
EMC	IEC/EN 61000-6-1 IEC/EN 61000-6-3	
Grid Connection Standards	South Africa NRS097-2-1:2017,UK/G98,G99	

Application:

The LSRTH series is suitable for residential installations requiring off-grid solar power solutions. Its robust MPPT solar charge controller makes it ideal for solar-powered systems, while its ability to handle grid failures and its compatibility with both lead-acid and lithium-iron batteries enhance flexibility. It is especially effective in areas with unstable grid power or as a backup for essential electrical loads.

Shipping Methods:

Supports global air and sea shipping.



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