Residential Applications Off Grid Inverter 1000W-6000W Multiple Series

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: LS
- Certification: CE ISO 9001 RoHS
- Model Number: LSROI
- Minimum Order Quantity: 30 units
- Price: consult prices online
- Packaging Details: consult online
- Payment Terms: T/T

Residential Off-grid Inverter

Product Specification

- Rated Power: 1000W / 2000W / 3000W / 4000W / 5000W / 6000W
- Battery Voltage: 12V / 24V / 48V
- Efficiency: >85% (with 80% Resistive Loads)
- Cooling Method: Fans Cooling
- Protection Functions: Battery Overvoltage, Undervoltage, Overload, Short Circuit, Overtemperature Protection
- Display: LCD + LED
- Input Voltage Range (AC Mode):   110V-275V AC
- Frequency Range (Inverter Mode):   50Hz ±1%
- Highlight: **Residential off grid inverter 1000w, 6000W off grid inverter 1000w, 2000W solar inverter off grid 1000w**

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Product Description

1000W-6000W Multiple Series High-Efficiency Off-Grid Inverters for Residential Applications

Residential Off-grid Inverter

- Dual MCU design, excellent performance;
- Power frequency, adapt to various types of loads;
- Comprehensive digital LCD display, easy to understand the working status of the machine

- Wide input voltage range, high-precision output, fully automatic voltage stabilization function
- LVD , HVD , charging voltage and turn off voltage, battery type/charging current settable
- Toroidal transformer, low no-load loss

Product Description

The LSROI series of residential off-grid inverters is designed to meet various load demands with high-efficiency performance. Featuring a dual MCU design, it offers stable power frequency adaptation to different loads. The inverters come with a comprehensive digital LCD display for ease of monitoring and provide a wide input voltage range with precise output control. Additionally, it includes advanced protection functions like battery overvoltage and undervoltage protection, overload protection, and short circuit prevention, ensuring reliable operation in different environments. The use of a toroidal transformer minimizes no-load loss, making these inverters energy-efficient even in standby modes. These off-grid inverters are ideal for homes with frequent power outages or located in remote areas.

Product Model	LSOT1K-C1	LSOTIK-C2	LSOTEK-C2	LSOT2K-C4	LSOT3K-C2	LSOT3K-C4	LSOT4K-C4	LSOT5K-C4	LSOT6K-C4
Rated Power	1000W		2000W		3000W		4000W	5000W	6000W
Battery Voltage	12V 24V		24V	48V	24V 48V		48V		
Size(W*D*Hmm)	540×265x180						580x340x210		
Package Size(W*D*H mm)	580×310x220						620×390×270		
Net Weight(kg)	10.5		15		17.5		20	24	25
Gross Weight (kg)	13		17.5		20		23	27	28
Input									
Phase	L+N+G								
AC InputRange	220V:170-275VAC								
Frequency	45Hz~55Hz								
Output									
Voltage	nvertermode:220VAC±5%;AC mode:220VAC±10%;								
Frequency(AC mode)	Auto-detect								
Frequency (inverter mode)	50Hz±1%								
OverLoad Capacity (AC mode)	(100%~110%:10min,110%~130%:1min,>130%:1s)								
Over Load Capacity(inverter mode)	(100%~110%:30s,110%~130%:10s,>130%:1s)								
Crest Ratio	3:1 max								
Transfer Time	<10ms (typical loads)								
Waveform	Pure sine wave								
Effciency	>85%(80%resistive loads)								
Protection Function	Battery ovenvoltage protection,battery undervotage protection,ovedoad protection. short cicuit protection,overtemperatureprotection,eto.								
Cooling Method	Fans cooling								

Environmental Conditions	
Operation Temperature	0~40℃ (battery life decreases at ambient temperaturesabove 25degrees Celsius)
Operation Humidity	<95%withoutcondensing
Operation Atitude	<1000m (withincrease of 100m,it wllreduce output of 1%,max 5000m)
Noise	<58dB(distance to machine 1m)
Management	
Display	LCD+LED
Communication Interface	RS232(optional)

Product Model	LSOTIK-U1	LSOT1K-U2	LSOT2K-U2	LSOT2K-U4	LSOT3K-U2	LSOT3K-U4
Fated Power	1000W		2000W		3000W	
Battery Voltage	12V	24V	24V 48V		24V 48V	
Size (W*D*H mm)	540x265x180					
PackageSize (W*D*H mm)	580x310x220					

Net Weight(kg)	10.5	15	17.5
Gross Weight (kg)	13	17.5 20	
Input			
Phase	L+N+G		
AC InputRange	110V:85-138VAC		
Frequency	55Hz~65Hz		
Output			
Voltage	Inverter mode:110VAC±5%;AC mode:110VAC±10%;		
Frequency(AC mode)	Auto-detect		
Frequency (inverter mode)	60Hz±1%		
Over Load Capacity (AC mode)	(100%-110%:10min.110%-130%:1min,>130%:1s)		
Over Load Capacity (inverter mode)	(100%~110%:30s,110%~130%:10s,>130%:1s)		
Crest Ratio	3:1 max		
Transfer Time	<10ms(typical loads)		
Waveform	Pure sine wave		
Efclency	>85%(80%resistve loads)		
Protection Function	Battery overvoliage prolection,battery undervoltageprotection,overlood protection, short circutprotocton,ovortemporaturo protection,ots.		
CoolingMethod	Fanscooling		
Environmental Conditlons			
Operation Temperature	0-40℃ (battery life decreases at ambient temperatures above 25 degrees Celsius)		
Operation Humidity	<95%without condensing		
Operation Altitude	<1000m (with increase of 100m,it will reduce output of 1%,max 5000m)		
Noise	<58dB (distance to machine 1m)		
Management			
Display	LCD+LED		
Communication Interface	RS232(optional		

Remarks:Specifications are subject to change without notice;Special voltage and power requirements can be customizeddesigned

Product Model	LSOT1K-D1	LSOT1K-D2	LSOT2K-D2	LSOT2K-D4	LSOT3K-D2	LSOT3K-D4
Rated Power	1000W		2000W		3000W	
Battery Voltage	12V 24V		24V 48V		24V 48V	
Size(W*D"H mm)	540×265x180					
Package Size (W*D*Hmm)	580x310x220					
NetWeight(kg)	10.5		15		17.5	
Gross Weight(kg	13		17.5		20	
Input						
Phase	L+N+G					
AChput Range	120V:85-138VAC					
Frequency	55Hz~65Hz					
Output						
Voltage	nverter mode:120VAC±5%;AC mode:120VAC±10%;					
Frequency (AC mode)	Auto-detect					
Frequency (inverter mode)	60Hz±1%					
Over LoadCapacity(AC mode)	(100%~110%:10min,110%~130%:1min,>130%:1s)					
Over Load Capacity (inverter mode)	(100%-110%:30s,110%-130%:10s,>130%:1s)					
Crest Ratio	3:1max					
Transfer Time	<10ms (typical loads)					
Waveform	Pure sine wave					
Etticiengy	>85%(80%resistive loads)					
Protection Function	Battery overvoltage protection,batlery undervoltageprotection,overload protection short crout protection.overtemperature protection,eto.					
Cooling Method	Fans cooling					
Environmental Conditions						
Operation Temperature	0-40℃ (battery life decreases at ambient temperatures above 25 degrees Celsius)					
Operation Humidity	<95%withoutcondensing					
OperationAltitude	<1000m (with increaseof 100m,it will reduceoutput of 1%,max5000m)					
Noise	<58dB(distance tomachine 1m)					
Management						
Display	LCD+LED					
CommunicationInterface	RS232(optional)					

Remarks:Specifications are subject to change without notice:Special voltage and power requirements can be customized designed

Application

The LSROI inverters are suited for residential applications, particularly in remote areas or regions with unstable power supply, providing a reliable off-grid power solution. Ideal for households seeking independence from grid power and those requiring a backup power source.

Shipping Methods

Supports global air and sea shipping.

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