



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

Basic Information

. Place of Origin: China . Brand Name: LS

CE ISO 9001 RoHS · Certification:

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

12V / 24V / 48V • Battery Voltage:

. Efficiency: >85% (with 80% Resistive Loads)

. Cooling Method: Fans Cooling

Battery Overvoltage, Undervoltage, Protection Functions:

Overload, Short Circuit, Overtemperature

Protection

LCD + LED • Display:

110V-275V AC • Input Voltage Range (AC

Mode):

• Frequency Range (Inverter 50Hz ±1%

Mode):

• Highlight: Residential off grid inverter 1000w,

6000W off grid inverter 1000w,

2000W solar inverter off grid 1000w

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	LSOT 1K-C1	LSO TIK- C2	LSOT EK-C2	LSOT 2K-C4	LSO T3K- C2	LSOT 3K-C4	LSOI	LSO T⁵K- C4	LSOT ⁶ K-C4
Rated Power			2000W		3000W		4000 W	5000 W	6000 W
Battery Voltage	12V 24	12V 24V 24V 48V		48V	24V 48V		48V		
Size(W*D*Hmm)	540×265×180					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 Condition	S							
Operation Temperature	0~40°C (battery life decreases at ambient							
Operation remperature	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	terface RS232(optional)							
						,		
Product Model	LSOTIK-	LSOT1K-	LSOT2K-	LSOT2K	LSOT3K	LSOT3K-		
	U1	U2	U2	U4	U2	U4		
Fated Power	1000W		2000W		3000W			
Battery Voltage	12V	24V	24V 48V		24V 48V			
Size (W*D*H mm)	540x265x	180						
PackageSize (W*D*H mm)	580x310x	220						

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		/AC±5%;AC mode:	110VAC±10%;		
Frequency(AC mode)	Auto-detect				
Frequency (inverter	60Hz±1%				
mode)	00.122.70				
Over Load Capacity (AC mode)	(100%-110%:10mir	n.110%-130%:1min	,>130%:1s)		
Over Load Capacity (inverter mode)	(100%~110%:30s,	110%~130%:10s,>1	30%:1s)		
Crest Ratio	3:1 max				
Transfer Time	<10ms(typical load	s)			
Waveform	Pure sine wave	·			
Efclency	>85%(80%resistve	loads)			
Protection Function	Battery overvoliage prolection,battery undervoltageprotection,overlood protection, short circutprotocton,ovortemporaturo protoction,ots.				
CoolingMethod	Fanscooling				
Environmental Condition					
		decreases at ambie	ent temperatures		
Operation Temperature	above 25 degrees	Celsius)	on tomporatures		
Operation Humidity	<95%without conde	ensing ase of 100m,it will r	educe output of		
Operation Altitude	1%,max 5000m)				
Noise	<58dB (distance to	macnine 1m)			
Management					
Display	LCD+LED				
Communication Interface					
Remarks:Specifications			ecial voltage and		
power requirements can					
Product Model	LSOT1K-LSOT1K- D1 D2	LSOT2K- LSOT2K- D2 D4	LSOT3K-LSOT3K- D2 D4		
Rated Power	1000W	2000W	3000W		
Battery Voltage	12V 24V	24V 48V	24V 48V		
Size(W*D"H mm)	540×265×180	ı	1		
Package Size	E00::040::000				
(W*D*Hmm)	580x310x220				
NetWeight(kg)	10.5	15	17.5		
Gross Weight(kg	13	17.5	20		
Input		I	1		
Phase	L+N+G				
AChput Range	120V:85-138VAC				
Freguency	55Hz~65Hz				
Output	ı				
Voltage nverter mode:12	0VAC+5%:AC mode				
Frequency (AC mode)		e:120VAC±10%:			
r reduction (AO IIIOGE)	Auto-detect	e:120VAC±10%;			
Frequency (inverter		e:120VAC±10%;			
Frequency (inverter mode) Over LoadCapacity(AC	Auto-detect 60Hz±1%		n.>130%:1s)		
Frequency (inverter mode) Over LoadCapacity(AC mode)	Auto-detect 60Hz±1% (100%~110%:10mi	n,110%~130%:1miı	<u> </u>		
Frequency (inverter mode) Over LoadCapacity(AC	Auto-detect 60Hz±1% (100%~110%:10mi		<u> </u>		
Frequency (inverter mode) Over LoadCapacity(AC mode) Over Load Capacity	Auto-detect 60Hz±1% (100%~110%:10mi	n,110%~130%:1miı	<u> </u>		
Frequency (inverter mode) Over LoadCapacity(AC mode) Over Load Capacity (inverter mode)	Auto-detect 60Hz±1% (100%~110%:10mi (100%-110%:30s,1 3:1max	n,110%~130%:1miı 10%-130%:10s,>13	<u> </u>		
Frequency (inverter mode) Over LoadCapacity(AC mode) Over Load Capacity (inverter mode) Crest Ratio	Auto-detect 60Hz±1% (100%~110%:10mi (100%-110%:30s,1	n,110%~130%:1miı 10%-130%:10s,>13	<u> </u>		
Frequency (inverter mode) Over LoadCapacity(AC mode) Over Load Capacity (inverter mode) Crest Ratio Transfer Time Waveform	Auto-detect 60Hz±1% (100%~110%:10mi (100%-110%:30s,1 3:1max <10ms (typical load Pure sine wave	n,110%~130%:1miı 10%-130%:10s,>13	<u> </u>		
Frequency (inverter mode) Over LoadCapacity(AC mode) Over Load Capacity (inverter mode) Crest Ratio Transfer Time	Auto-detect 60Hz±1% (100%~110%:10mi (100%-110%:30s,1 3:1max <10ms (typical load Pure sine wave >85%(80%resistive	n,110%~130%:1mii 10%-130%:10s,>13 ds)	<u> </u>		
Frequency (inverter mode) Over LoadCapacity(AC mode) Over Load Capacity (inverter mode) Crest Ratio Transfer Time Waveform	Auto-detect 60Hz±1% (100%~110%:10mi (100%-110%:30s,1 3:1max <10ms (typical load Pure sine wave >85%(80%resistive Battery overvoltage undervoltageprotect	n,110%~130%:1mii 10%-130%:10s,>13 ds) e loads) e protection,batlery	20%:1s)		
Frequency (inverter mode) Over LoadCapacity(AC mode) Over Load Capacity (inverter mode) Crest Ratio Transfer Time Waveform Etticiengy Protection Function	Auto-detect 60Hz±1% (100%~110%:10mi (100%-110%:30s,1 3:1max <10ms (typical load Pure sine wave >85%(80%resistive Battery overvoltage undervoltageprotectionshort crout protections	n,110%~130%:1mii 10%-130%:10s,>13 is) e loads)	20%:1s)		
Frequency (inverter mode) Over LoadCapacity(AC mode) Over Load Capacity (inverter mode) Crest Ratio Transfer Time Waveform Etticiengy Protection Function Cooling Method	Auto-detect 60Hz±1% (100%~110%:10mi (100%-110%:30s,1 3:1max <10ms (typical load Pure sine wave >85%(80%resistive Battery overvoltage undervoltageprotect short crout protection	n,110%~130%:1mii 10%-130%:10s,>13 ds) e loads) e protection,batlery	20%:1s)		
Frequency (inverter mode) Over LoadCapacity(AC mode) Over Load Capacity (inverter mode) Crest Ratio Transfer Time Waveform Etticiengy Protection Function Cooling Method Environmental Condition	Auto-detect 60Hz±1% (100%~110%:10mi (100%-110%:30s,1 3:1max <10ms (typical load Pure sine wave >85%(80%resistive Battery overvoltage undervoltageprotect short crout protectif Fans cooling s 0-40°C (battery life	n,110%~130%:1min 10%-130%:10s,>13 ds) e loads) e protection,batlery etion,overload protection.overtemperature decreases at ambie	20%:1s)		
Frequency (inverter mode) Over LoadCapacity(AC mode) Over Load Capacity (inverter mode) Crest Ratio Transfer Time Waveform Etticiengy Protection Function Cooling Method Environmental Condition Operation Temperature	Auto-detect 60Hz±1% (100%~110%:10mi (100%-110%:30s,1 3:1max <10ms (typical load Pure sine wave >85%(80%resistive Battery overvoltage undervoltageprotection Fans cooling s 0-40°C (battery life above 25 degrees	n,110%~130%:1min 10%-130%:10s,>13 ds) e loads) e protection,batlery etion,overload protection.overtemperature decreases at ambie Celsius)	20%:1s)		
Frequency (inverter mode) Over LoadCapacity(AC mode) Over Load Capacity (inverter mode) Crest Ratio Transfer Time Waveform Etticiengy Protection Function Cooling Method Environmental Condition Operation Temperature Operation Humidity	Auto-detect 60Hz±1% (100%~110%:10mi (100%-110%:30s,1 3:1max <10ms (typical load Pure sine wave >85%(80%resistive Battery overvoltage undervoltageprotection Fans cooling s 0-40°C (battery life above 25 degrees (<95%withoutconde) <1000m (with incre	n,110%~130%:1min 10%-130%:10s,>13 ds) e loads) e protection,batlery etion,overload protection.overtemperature decreases at ambie Celsius)	ction protection,eto.		
Frequency (inverter mode) Over LoadCapacity(AC mode) Over Load Capacity (inverter mode) Crest Ratio Transfer Time Waveform Etticiengy Protection Function Cooling Method Environmental Condition Operation Temperature	Auto-detect 60Hz±1% (100%~110%:10mi (100%-110%:30s,1 3:1max <10ms (typical load Pure sine wave >85%(80%resistive Battery overvoltage undervoltageprotect short crout protectif Fans cooling s 0-40°C (battery life above 25 degrees (<95%withoutconde <1000m (with incre 1%,max5000m)	n,110%~130%:1min 10%-130%:10s,>13 ds) e loads) e protection,batlery tion,overload protection.overtemperature decreases at ambie Celsius) nsing aseof 100m,it will re	ction protection,eto.		
Frequency (inverter mode) Over LoadCapacity(AC mode) Over Load Capacity (inverter mode) Over Load Capacity (inverter mode) Crest Ratio Transfer Time Waveform Etticiengy Protection Function Cooling Method Environmental Condition Operation Temperature Operation Humidity OperationAltitude Noise	Auto-detect 60Hz±1% (100%~110%:10mi (100%-110%:30s,1 3:1max <10ms (typical load Pure sine wave >85%(80%resistive Battery overvoltage undervoltageprotection Fans cooling s 0-40°C (battery life above 25 degrees (<95%withoutconde) <1000m (with incre	n,110%~130%:1min 10%-130%:10s,>13 ds) e loads) e protection,batlery tion,overload protection.overtemperature decreases at ambie Celsius) nsing aseof 100m,it will re	ction protection,eto.		
Frequency (inverter mode) Over LoadCapacity(AC mode) Over Load Capacity (inverter mode) Over Load Capacity (inverter mode) Crest Ratio Transfer Time Waveform Etticiengy Protection Function Cooling Method Environmental Condition Operation Temperature Operation Humidity OperationAltitude	Auto-detect 60Hz±1% (100%~110%:10mi (100%-110%:30s,1 3:1max <10ms (typical load Pure sine wave >85%(80%resistive Battery overvoltage undervoltageprotect short crout protectif Fans cooling s 0-40°C (battery life above 25 degrees (<95%withoutconde <1000m (with incre 1%,max5000m)	n,110%~130%:1min 10%-130%:10s,>13 ds) e loads) e protection,batlery tion,overload protection.overtemperature decreases at ambie Celsius) nsing aseof 100m,it will re	ction protection,eto.		

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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