

# LESSO



## 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 Model	LSOT1K-C1	LSOT1K-C2	LSOT2K-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*H mm)	540x265x180						580x340x210		
Package Size (W*D*H mm)	580x310x220						620x390x270		
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 Input Range	220V: 170-275VAC								
Frequency	45Hz~55Hz								
Output									
Voltage	Inverter mode: 220VAC±5%; AC mode: 220VAC±10%;								
Frequency (AC mode)	Auto-detect								
Frequency (inverter mode)	50Hz±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								
Efficiency	>85% (80%resistive loads)								
Protection Function	Battery overvoltage protection, battery undervoltage protection, overload protection, short circuit protection, overtemperature protection, etc.								
Cooling Method	Fans cooling								
Environmental Conditions									
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 customized designed

Product Model	LSOT1K-U1	LSOT1K-U2	LSOT2K-U2	LSOT2K-U4	LSOT3K-U2	LSOT3K-U4
Rated Power	1000W		2000W		3000W	
Battery Voltage	12V	24V	24V	48V	24V	48V
Size (W*D*H mm)	540x265x180					
Package Size (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 Input Range	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					
Efficiency	>85% (80%resistive loads)					
Protection Function	Battery overvoltage protection, battery undervoltage protection, overload protection, short circuit protection, overtemperature protection, etc.					
Cooling Method	Fans cooling					
Environmental Conditions						
Operation Temperature	0~40 °C (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)					

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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)	540x265x180					
Package Size (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 Input Range	120V: 85-138VAC					
Frequency	55Hz~65Hz					
Output						
Voltage	Inverter mode: 120VAC±5%; AC mode: 120VAC±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					
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