

# LESSO



## Residential Off-grid Inverter With MPPT

(Single Phase Power Frequency)

Models:

LSOTH1KL

LSOTH2KL

LSOTH3KL

LSOTH4KL

LSOTH5KL

LSOTH6KL

LSOTH8KL

LSOTH10KL

LSOTH12KL



CE

Product Model	LSOTH1KL	LSOTH2KL	LSOTH3KL	LSOTH4KL	LSOTH5KL	LSOTH6KL	LSOTH8KL	LSOTH10KL	LSOTH12KL
Rated Power	1kW	2kW	3kW	4kW	5kW	6kW	8kW	10kW	12kW
Max. Power	3kW	6kW	9kW	12kW	15kW	18kW	24kW	30kW	36kW
Rated Battery Voltage	12/24/48V	12/24/48V	12/24/48V	24/48V	24/48V	24/48V	48V	48V	48V
MPPT Control Module	Charge Current	60A	80A	80A	80A	80A	80A	80A	80A
	PV Module Input	1 circuit (80A)							
	PV Input Operating Voltage	15V-180V ( 12V System ) ;30V-180V ( 24V System ) ; 60V-230V ( 48V System )							
	Maximum PV Array Power	60A : 720W(12V System ) 1440W(24V System ) ; 3840W ( 48V System ) ;							
	Max. Charge Current (Adjustable)	OFF/30A/60A							
	Control Module Efficiency	≈99%							
	Unattended mode	MPPT Control Module continues to charge battery from PV module even when device is switched off							
Input	DC Input Voltage Range	10.5VDC-15VDC (12V voltage unit) (lead acid battery)							
	Mains AC Input Voltage Range	110Vac : (80-130)Vac ; 220Vac : (160-260)Vac/(130-280)Vac (Adjustable)							
	Mains AC Input Frequency	45HZ-65HZ automatic match							
	Mains AC Charge Current (Adjustable)	ON/OFF (Adjustable)							
Output	Inverter output voltage waveform	Pure sine wave							
	Inverter output Efficiency	≈90%							
	Inverter output voltage	200V/210V/220V/230V/240V (Adjustable)							
	Inverter output Frequency	50Hz/60Hz (Adjustable)							
	AC output voltage	110VAC±10%/220VAC±10%							
	AC output Frequency	Automatic tracking							
	Energy loss under power saving mode	5W							
Operating Mode	Inverter operating mode	Mains AC priority mode, battery priority mode, ECO mode, unattended mode, power generation mode							
Battery Parameter	Supported battery type	Lead acid battery / LiFePO <sub>4</sub> battery / NiCoMn battery / Gel battery / Customer self-defined							
	Battery defining parameter	Constant-voltage charging setting, float-voltage charging setting, battery recovery voltage setting, mains AC recovery voltage setting, low voltage alarm setting, low voltage protection setting							
	Battery charging mode	Lead acid battery: constant current, constant voltage, float charging LiFePO <sub>4</sub> battery: constant current, constant voltage							
	Lithium type battery selection	LiFePO <sub>4</sub> battery: 3.2V per unit    NiCoMn battery: 3.7V per unit							
Protection	System Protection	Battery low voltage protection / Battery high voltage protection / Overload protection / Over heating protection,etc							
Display	LCD display	Mains AC status, DC-AC status, charging status, alarm							
	Operating display	Operating status, Input & output voltage, PV module operating information, Inverter operating information and etc.							
	Language	English/Chinese (Adjustable)							
Switch Time	< 5ms								
Cooling Method	Smart temperature control system								
Communication	RS232/RS485 (optional)								
Operating Temperature	(-10℃~40℃)								
Operating Altitude	≤3000m								
Product Dimensions	495*320*220mm						560*390*200mm		
Package Dimensions	600*380*290mm						715*420*316mm		
Net Weight (kg) (Approx)	11kg	16.5kg	19.5kg	22kg	25kg	28kg	31.5kg	36kg	40kg
Gross Weight (kg) (with wooden crate) (Approx)	14kg	19.5kg	22kg	25kg	28kg	31kg	36kg	41kg	45kg

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