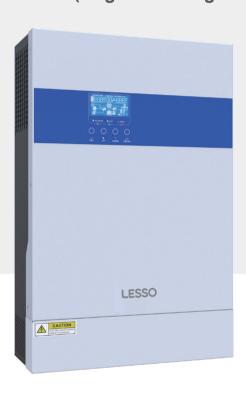
LESSO

LSOTH5K5TLL(-P1)

Residential Off-grid Inverter With MPPT (Single Phase High Frequency)





Efficient Higher Revenue Built-in 110A MPPT solar charge
Wide PV input voltage range



Intelligent Simple O&M Over load / over temperature / short circuit protection

Smart battery charger design, optimize battery performance



Flexible
Abundant Configuration

Support grid / generator input
Compatible with lithium battery
Up to 6 units in parallel (P model)
Multiple charging voltage levels for different batteries
Multiple work mode, support AC priority, solar priority

LESSO Residential Off-grid Inverter With MPPT (Single Phase High Frequency)

Input		LSOTH5K5TLL	LSOTH5K5TLL-P1
Voltage 230Vac Selectable Voltage Range 170Vac-280Vac (for home appliances) Frequency Range 50Hz / 60Hz (auto sensing) Output AC Voltage Regulation (Balt, Mode) 230Vac±5% Power Surge 11000VA Overload Capacity 5e ≥ 150% load; 10e-110%*150% load Efficiency (Peak) 94% Transfer Time 10ms (for personal computers); 20ms (for home appliances) Waveform Pure Sine Wave Battery Battery Value (Pound of Capacity) 48% Floating Charge Voltage 48Vdc Solar Charger & AC Charge 48Vdc Solar Charger & AC Charge MPT Maximum VP Array Power 6000W Mayrimum PV Array Power (Popon Circuit Voltage) 5000W Maximum VP Array Open Circuit Voltage 5000W Maximum Ullilly Charge Current 110A Protection Features AC Short Circuit Protection, AC Ower Current Protection, over Temperature Protection, etc. Communication CE Communication CE Communication Port RS222 / RS485 <t< td=""><td>Rated Power</td><td>5500VA/</td><td>5500W</td></t<>	Rated Power	5500VA/	5500W
1761a- 2801/ac (per personal conquitors)	Input		
Seet.table Vollage Range 80Vac-280Vac (or home appliances) Output 50Hz / 60Hz (auto sensing) AC Vollage Regulation (Batt. Mode) 230Vacs15% Power Surge 10Hz Overload Capacity 58 € ± 150% load; 16 € #110% "150% load Efficiency (Peak) 94% Transfer Time 10ms (for personal computers); 20ms (for home appliances) Waveform Pure Sine Wave Battery 48Vdc Floating Charge Voltage 48Vdc Overchage Protection 62 Vdc Solar Charger & AC Charge 25 Vdc Solar Charger Type MPPT Maximum PV Array Power 60000W Maximum PV Array Power (maximum Utility Charge Current) 80A Maximum Varray Open Circuit Voltage 5000-Charge Current Maximum Varray Charge Current 80A Maximum Varray Charge Current 80A Maximum Varray Charge Current 80A Maximum Charge Current 80A Maximum Charge Current 80A Protection Features AC Short Circuit Protection, AC Over Current Protection, etc. Communicatio	Voltage	230Vac	
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AC Voltage Regulation (Batt, Mode) 230Vaet5%	Frequency Range	50Hz / 60Hz (auto sensing)	
Power Surge 11000VA Overload Capacity 58€ ≥ 150% load; 10s€110%" 150% load Efficiency (Peak) 94% Transfer Time 10ms (for personal computers); 20ms (for home appliances) Waveform Pure Sine Wave Battery Pure Sine Wave Battery Nominal Vottage 48Vdc Floating Charge Voltage 52Vdc Overcharge Protection 62Vdc Solar Charger & AC Charge MPPT Maximum PV Array Power 60000V MpPT Range 120Vdc-450Vdc Maximum BV Array Open Circuit Vottage 80A Maximum Bolar Charge Current 110A Protection Features AC Short Circuit Protection, AC Over Current Protection, Over Temperature Protection, Over Temperature Protection, etc. Communication LCD Communication Port RS232 / RS485 Standard Compliance Safety EMC CE General Data CE CE Unimosion (W x H x D) 297 x 472 x 133 mm Net Weight 10.5kg Net Weight 10.5kg Protection Degree [P21 <	Output		
Overload Capacity Sse® ≥ 150% load; 10se™10%***150% load Efficiency (Peak) 94% Transfer Time 10ms (for personal computers); 20ms (for home appliances) Waveform Pure Sine Wave Battery V Battery V Battery Nominal Voltage 4874c Floating Charge Voltage 52Vdc Overcharge Fotoction 62Vdc Solar Charger Type MPPT Maximum PV Array Power 6000W Maximum PV Array Open Circuit Voltage 500Vdc Maximum PV Array Open Circuit Voltage 500Vdc Maximum PV Array Open Circuit Voltage 80A Maximum PV	AC Voltage Regulation (Batt. Mode)	230Vac±5%	
Efficiency (Peak) 94% Transfer Time 10ms (for personal computers); 20ms (for home appliances) Waveform Pure Sine Wave Battery Battery Battery Nominal Voltage 48Vdc Floating Charge Voltage 52Vdc Over charge Protection 62Vdc Solar Charger & AC Charge MPPT Maximum PV Array Power MPPT Maximum PV Array Power 60000W Maximum PV Array Open Circuit Voltage 500Vdc Maximum PV Array Open Circuit Voltage 500Vdc Maximum PV Array Open Circuit Voltage 80A Maximum PV Array Open Circuit Volta	Power Surge	11000VA	
Transfer Time 10ms (for personal computers); 20ms (for home appliances) Waveform Pure Sine Wave Battery Battery Battery Nominal Voltage 48Vdc Floating Charge Voltage 52Vdc Overcharge Protection 62Vdc Solar Charger & AC Charge WPT Maximum PV Array Power 60000W Mapper Range 120Vdc-450Vdc Maximum PV Array Open Circuit Voltage 500Vdc Maximum PV Array Open Circuit Voltage 500Vdc Maximum PV Array Open Circuit Voltage 80A Maximum Circuit Vo	Overload Capacity	5s@ ≥ 150% load; 10s@110%~150% load	
Waveform Pure Sine Wave Battery Battery Nominal Voltage Floating Charge Voltage 52Vdc Overcharge Protection 62Vdc Solar Charge & AC Charge MPPT Solar Charge & AC Charge MPPT Maximum PV Array Power 6000W MPPT Range 120Vdc -450Vdc Maximum PV Array Open Circuit Voltage 500Vdc Maximum PV Array Open Circuit Voltage 500 A Maximum PV Array Current 80A Maximum PV Array Current 110A Protection Features AC Short Circuit Protection, AC Over Current Protection, Over Temperature Protection, etc. Communication Communication Display LCD Communication Port RS222 / RS48S Standard Compliance Standard Compliance Safety/ EMC CE General Data 297 x 472 x 133 mm Dimension (W x H x D) 297 x 472 x 133 mm Net Weight 10.5kg Protection Degree IP21 Operating Temperature 0 ° C - +55° C Storage Temperature	Efficiency (Peak)	94%	
Battery Battery Nominal Voltage 48Vdc Floating Charge Voltage 52Vdc Overcharge Protection 62Vdc Solar Charge Pytocetton 82Vdc Solar Charge Type MPT Maximum PV Array Power 6000W Maximum PV Array Open Circuit Voltage 500Vdc Maximum PV Array Open Circuit Voltage 500Vdc Maximum Solar Charge Current 80A Maximum Solar Charge Current 110A Protection Features AC Short Circuit Protection, AC Over Current Protection, Over Temperature Protection, etc. Communication CD Display LCD Communication Port RS232 / RS485 Standard Compliance Standard Compliance Safety / EMC CE General Data CE Dimension (W x H x D) 297 x 472 x 133 mm Net Weight 10.5kg Protection Degree IP21 Operating Temperature 0 ° C ~ +55° C Storage Temperature 15° C ~ +69° C Humidity 5%-95% (non-condensing)	Transfer Time	10ms (for personal computers); 20ms (for home appliances)	
### Battery Nominal Voltage ### 48Vdc Floating Charge Voltage \$2Vdc Overcharge Protection 62Vdc Solar Charger & AC Charge Solar Charger & AC Charge Solar Charger & AC Charge ### 4000000000000000000000000000000000	Waveform	Pure Sine Wave	
Floating Charge Voltage Overcharge Protection 62Vdc Solar Charger & AC Charge Solar Charger Type Maximum PV Array Power MPPT Maximum PV Array Power Moment Utility Charge Current Maximum PV Array Open Circuit Voltage Maximum VI Array Open Circuit Voltage Maximum Utility Charge Current Maximum Utility Charge Current Maximum Solar Charge Current AC Short Circuit Protection, AC Over Current Protection, Over Temperature Protection, etc. Communication Display AC Short Circuit Protection, AC Over Current Protection, Over Temperature Protection, etc. Communication Port RS232 / RS485 Standard Compliance Safety/ EMC CE General Data Dimension (W x H x D) AC ST x x x x x x x x x x x x x x x x x x	Battery		
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Solar Charger & AC Charge Solar Charger Type Maximum PV Array Power Mover Maximum PV Array Power Maximum PV Array Open Circuit Voltage Maximum PV Array Open Circuit Voltage Maximum Utility Charge Current Maximum Solar Charge Current Protection Features Protection Features AC Short Circuit Protection, AC Over Current Protection, Over Temperature Protection, etc. Communication Display LCD Communication Port Safety/ EMC Cel General Data Dimension (W x H x D) AC Short Circuit Protection Post Safety EMC Cel General Data Dimension (W x H x D) AC Short Circuit Protection Post Base Safety EMC Cel General Data Dimension (W x H x D) AC Short Circuit Protection Post Base Safety EMC Cel General Data Dimension (W x H x D) AC Short Circuit Protection Post Base Safety EMC Cel General Data Dimension (W x H x D) AC Short Circuit Protection Post Base Safety EMC Cel General Data Dimension (W x H x D) AC Short Circuit Protection Post Base Safety EMC Cel General Data Dimension (W x H x D) AC Short Circuit Protection, AC Over Current Protection, Over Temperature Display LCD Communication Display LCD Communication Display LCD Cel General Data Dimension (W x H x D) AC Short Circuit Protection, AC Over Current Protection, Over Temperature Display AC Short Circuit Protection, AC Over Current Protection, Over Temperature AC Short Circuit Protection, AC Over Current Protection, Over Temperature AC Short Circuit Protection, AC Over Current Protection, Over Temperature AC Short Circuit Protection, AC Over Current Protection, Over Temperature AC Short Circuit Protection, AC Over Current Protection, Over Temperature AC Short Circuit Protection, AC Over Current Protection, Over Temperature AC Short Circuit Protection, AC Over Current Protection, Over Temperature AC Short Circuit Protection, AC Over Current Protection, Over Temperature AC Short Circuit Protection, AC Over Current Protection, Over Temperature AC Short Circuit Protection, AC Over Current Protection, Over Tem	Floating Charge Voltage	52Vdc	
Solar Charger Type Maximum PV Array Power 6000W MPPT Range 120Vdc-450Vdc Maximum PV Array Open Circuit Voltage 500Vdc Maximum Utility Charge Current 80A Maximum Solar Charge Current 110A Protection Features AC Short Circuit Protection, AC Over Current Protection, Over Temperature Protection, etc. Communication Display LCD Communication Port 88232 / R8485 Standard Compliance Safety/ EMC CE General Data Dimension (W x H x D) 10.5kg Protection Degree 1P21 Operating Temperature 10.5kg Protection Degree 1 P21 Operating Temperature 1.5c° C - +65° C Storage Temperature 15c° C - +60° C Hunidity 5%-95% (non-condensing)	Overcharge Protection	62Vdc	
Maximum PV Array Power MPPT Range 120Vdc-450Vdc Maximum PV Array Open Circuit Voltage Maximum Utility Charge Current Maximum Solar Charge Current Protection Features AC Short Circuit Protection, AC Over Current Protection, Over Temperature Protection, etc. Communication Display LCD Communication Port Safety/ EMC General Data Dimension (W x H x D) Net Weight Protection Degree 1921 Operating Temperature 100W Maximum PV Array Power 6000W AC Short Circuit Protection, AC Over Current Protection, Over Temperature Protection, etc. Communication AC Short Circuit Protection, AC Over Current Protection, Over Temperature Protection, etc. Communication AC Short Circuit Protection, AC Over Current Protection, Over Temperature Protection, etc. CD Communication AC Short Circuit Protection, AC Over Current Protection, Over Temperature Protection, AC Over Current Protection, Over Temperature Protection, AC Over Current Protection, Over Temperature Frotection, AC Over Current Protection, AC Over Current Protectio	Solar Charger & AC Charge		
MPPT Range 120Vdc ~ 450Vdc Maximum PV Array Open Circuit Voltage 500Vdc Maximum Utility Charge Current 80A Maximum Solar Charge Current 110A Protection Features Protection Features AC Short Circuit Protection, AC Over Current Protection, Over Temperature Protection, etc. Communication Display LCD Communication Port RS232 / RS485 Standard Compliance Safety/ EMC CE General Data Dimension (W x H x D) 297 x 472 x 133 mm Net Weight 10.5kg Protection Degree IP21 Operating Temperature 0° C ~ +55° C Storage Temperature 115° C ~ 460° C Humidity 5%-95% (non-condensing)	Solar Charger Type	MPPT	
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Maximum Utility Charge Current 80A Maximum Solar Charge Current 110A Protection Features AC Short Circuit Protection, AC Over Current Protection, Over Temperature Protection, etc. Communication Display LCD Communication Port RS232 / RS485 Standard Compliance Safety/ EMC CE General Data Dimension (W x H x D) 297 x 472 x 133 mm Net Weight 10.5kg Protection Degree IP21 Operating Temperature 0° C ~ +55° C Storage Temperature -15° C ~ +60° C Humidity	MPPT Range	120Vdc~450Vdc	
Maximum Solar Charge Current 110A Protection Features AC Short Circuit Protection, AC Over Current Protection, Over Temperature Protection, etc. Communication LCD Communication Port RS232 / RS485 Standard Compliance CE Safety/ EMC CE General Data Dimension (W x H x D) 297 x 472 x 133 mm Net Weight 10.5kg Protection Degree IP21 Operating Temperature 0° C ~ +55° C Storage Temperature -15° C ~ +60° C Humidity 5%~95% (non-condensing)	Maximum PV Array Open Circuit Voltage	500Vdc	
Protection Features AC Short Circuit Protection, AC Over Current Protection, Over Temperature Protection, etc. Communication Display LCD Communication Port RS232 / RS485 Standard Compliance Safety/ EMC General Data Dimension (W x H x D) Agrava 133 mm Net Weight Protection Degree IP21 Operating Temperature O° C ~ +55° C Storage Temperature 15° C ~ +60° C Humidity AC Short Circuit Protection, AC Over Current Protection, Over Temperature, and Cover Current Protection, Cover Temperature, and Cover Temperatu	Maximum Utility Charge Current	A08	
Protection Features AC Short Circuit Protection, AC Over Current Protection, Over Temperature Protection, etc. Communication Display LCD Communication Port RS232 / RS485 Standard Compliance Safety/ EMC CE General Data Dimension (W x H x D) 297 x 472 x 133 mm Net Weight 10.5kg Protection Degree IP21 Operating Temperature 0° C ~ +55° C Storage Temperature -15° C ~ +60° C Humidity AC Short Circuit Protection, AC Over Current Protection, Over Temperature, etc. AC Short Circuit Protection, AC Over Current Protection, etc.	Maximum Solar Charge Current	110A	
Over Temperature Protection, etc. Communication LCD Communication Port RS232 / RS485 Standard Compliance CE Safety/ EMC CE General Data Dimension (W x H x D) 297 x 472 x 133 mm Net Weight 10.5kg Protection Degree IP21 Operating Temperature 0° C ~ +55° C Storage Temperature -15° C ~ +60° C Humidity 5%~95% (non-condensing)	Protection Features		
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Communication Port Standard Compliance Safety/ EMC CE General Data Dimension (W x H x D) Net Weight Protection Degree IP21 Operating Temperature O° C ~ +55° C Storage Temperature -15° C ~ +60° C Humidity RS232 / RS485 RS232 / RS485	Communication		
Standard Compliance Safety/ EMC CE General Data Dimension (W x H x D) Net Weight Protection Degree IP21 Operating Temperature O° C ~ +55° C Storage Temperature -15° C ~ +60° C Humidity CE CE CE CE CE CE CE CE CE C	Display	LCD	
Safety/ EMC General Data Dimension (W x H x D) Net Weight Protection Degree IP21 Operating Temperature O° C ~ +55° C Storage Temperature -15° C ~ +60° C Humidity CE CE CE CE CE CE CE CE CE C	Communication Port	RS232 / RS485	
General DataDimension (W x H x D)297 x 472 x 133 mmNet Weight10.5kgProtection DegreeIP21Operating Temperature0° C ~ +55° CStorage Temperature-15° C ~ +60° CHumidity5%~95% (non-condensing)	Standard Compliance		
Dimension (W x H x D) 297 x 472 x 133 mm Net Weight 10.5kg Protection Degree IP21 Operating Temperature 0° C ~ +55° C Storage Temperature -15° C ~ +60° C Humidity 5%~95% (non-condensing)	Safety/ EMC	CE	
Net Weight 10.5kg Protection Degree IP21 Operating Temperature 0° C ~ +55° C Storage Temperature -15° C ~ +60° C Humidity 5%~95% (non-condensing)	General Data		
Protection Degree IP21 Operating Temperature 0° C ~ +55° C Storage Temperature -15° C ~ +60° C Humidity 5%~95% (non-condensing)	Dimension (W x H x D)	297 x 472 x 133 mm	
Operating Temperature 0° C \sim +55 $^{\circ}$ C Storage Temperature -15° C \sim +60 $^{\circ}$ C Humidity $5\%\sim95\%$ (non-condensing)	Net Weight	10.5kg	
Storage Temperature -15° C ~ +60° C Humidity 5%~95% (non-condensing)	Protection Degree	IP21	
Humidity 5%~95% (non-condensing)	Operating Temperature	0° C ~ +55° C	
	Storage Temperature	-15° C ~	+60° C
Parallel Operation No Up to 6 pcs	Humidity	5%~95% (non-	condensing)
	Parallel Operation	No	Up to 6 pcs





