



1600W Microinverters For Residential And Small Commercial PV Systems

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: LS
- Certification: CE
- Model Number: LSMT1600TL-H1
- Minimum Order Quantity: 30 sets
- Price: consult prices online
- Packaging Details: consult online
- Payment Terms: T/T



Product Specification

- Rated Output Power: 1600W
- Maximum Output Power: 1600W
- MPPT Voltage Range: 22V-48V
- Nominal Output Voltage: 120V / 230V
- Efficiency: 95% Peak Efficiency
- Operating Ambient Temperature Range: 40°C To +65°C
- Maximum Units Per Branch: 2 Units @ 230V
- Dimensions: 255mm X 340mm X 45mm
- Highlight: **1600W Microinverters, Microinverters 48V, 22V micro inverter solar panel systems**

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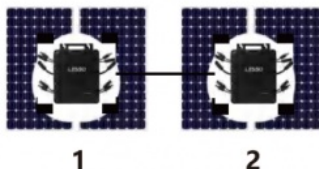
Product Description

1600W Microinverter for Residential and Small Commercial PV Systems

Micro PV Inverter Highlights

1. Single unit connects up to 4 PV modules.
2. Maximum 1600W AC output power.
3. Single phase output, Flexible 3-phase PV system.
4. WIFI communication and cloud monitoring.
5. Up to 2 units(230V) per branch.
6. Customizable various input (DV PV) voltage range.
7. Integrated AC bus cable, ready-To-Use.
8. Low cost, easy installation

Single phase connection method of micro inverter



1. LSMT1600TL-H1 @Single-Phase 230V grid Maximum 2 units LSMT1600TL-H1 micro PV inverter per branch.(AC cable 3*2.5mm²).
2. The max DC input power of each inverter is 1600W(the PV module max output power is 4x400W).
3. The VOC of PV modules should not be greater than the max DC input voltage of micro PV inverter.

Product Description:

The LSMT1600TL-H1 microinverter is a powerful solution designed to convert DC power from up to four photovoltaic (PV) modules into AC power. With a maximum AC output power of 1600W, this microinverter is ideal for both residential and small-scale commercial PV systems. It supports single-phase grid connections (120V & 230V) and features an efficiency of 95%, ensuring high energy conversion rates. The microinverter also comes equipped with Wi-Fi communication for cloud monitoring, making real-time energy tracking and system management easy. The unit's robust IP66-rated construction ensures durability and reliable performance in various environments. Installation is simplified through integrated AC bus cables, offering a low-cost, easy installation process.

DC Input	Model	LSMT1600TL-H1
	Number of input MC4 connector	4 sets
	MPPT voltage range	22V-48V
	Operation voltage range	18-60V
	Maximum Input voltage	60V
	Startup voltage	22V
	Maximum input power	1600W
	Maximum input current	15A*4
AC Output	Single-phase grid type	120V&230V
	Rated output power	1600W
	Maximum output power	1600W
	Nominal output current	@120VAC:13A/@230VAC:6.9A
	Nominal output voltage	120VAC/230VAC
	Default output voltage range	@120VAC:80V-160V/@230VAC:180V-270V
	Nominal output frequency	50Hz/60Hz
	Default output frequency range	@50Hz:48Hz-51Hz/@60Hz:58Hz-61Hz
	Power factor	>0.99%
	Total harmonic distortion	THD<5%
Efficiency	Maximum units per branch	@120VAC:2units/@230VAC:4units(AC cable 3*2.5mm²)
	Nominal MPPT efficiency	99.5%
	Peak efficiency	95%
	Night power consumption	<1W

Mechanical Data	Operating ambient temperature range	-40°C to +65°C
	Storage temperature range	-40°C to +85°C
	Dimensions (L×W×H)	255mm x340mmx45mm
	Weight	3.5kg
	Max current of AC bus cable	20A
	Waterproof rating	IP66
	Cooling mode	Natural convection-no fans
	Communication	WIFI(cloud monitoring)
	Power transmission mode	Reverse transfer, load priority
	Monitoring system	Mobile APP, PC browser
	Transformer design	High frequency transformers, galvanically isolated

Other Features	Integrated ground	Equipment ground is provided by the PE in the AC cable. No additional ground is required
	Protection Functions	Isolated island protection,voltage protection,frequency protection, temperature protection,current protection,etc.
	Design compliance	EN IEC61000-3-2:2019+A1:2021,EN 61000-3-3:2013+A1:2019+A2:2021 EN IEC55014-2:2021
	Certificate	CE

Application:

The LSMT1600TL-H1 microinverter is ideal for PV systems requiring high-power output, especially in residential or small commercial applications. It is designed to handle up to four PV modules and is well-suited for systems where shading, variable orientation, or limited space may affect individual module performance. Its integrated monitoring system and cloud connectivity provide enhanced system management, making it a valuable asset for users who require efficient, real-time performance tracking.

Shipping Methods:

Supports global air and sea shipping.



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