



300W Micro Inverter Galvanic Isolation For Safety And Reliability

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: LS
- Certification: CE
- Model Number: LSMT300TL-H1
- Minimum Order Quantity: 50 sets
- Price: consult prices online
- Packaging Details: consult online
- Payment Terms: T/T



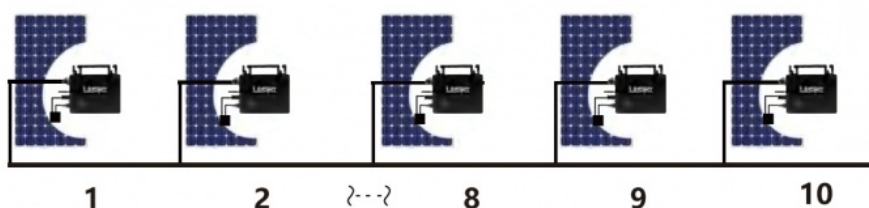
Product Specification

- Nominal Output Power: 300W
- Maximum Efficiency: 95%
- MPPT Voltage Range: 16V-48V
- Operating Ambient Temperature Range: -40°C To +65°C
- Dimensions (L×W×H): 195mm X 185mm X 40mm
- Weight: 1.6kg
- Cooling Mode: Natural Convection
- Communication: WIFI (cloud Monitoring)
- Highlight: **48V 300w micro inverter,**
16V 300w micro inverter, 300 watt micro inverter

Product Description

300W Microinverters Galvanic Isolation for Safety and Reliability

Single phase connection method of micro inverter



1. LSMT300TL-H1 @Single-Phase 230V grid maximum 10 units LSMT300TL-H1 micro PV inverter per branch.
2. The max DC input power of each inverter is 300W(the PV module max output power is 1x300W).
3. The VOC of PV modules should not be greater than the max DC input voltage of micro PV inverter

Micro PV Inverter Highlights

1. Single unit connects up to 1 PV module.
2. Maximum 300W AC output power.
3. Single phase output, Flexible 3-phase PV system.
4. WIFI communication and cloud monitoring.
5. Up to 10 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

Product Description

The LSMT300TL-H1 microinverter is designed to optimize the performance of single-phase photovoltaic systems, particularly in residential applications. With a maximum output power of 300W, this microinverter can efficiently manage energy from one PV module, ensuring reliable and consistent power generation. It features a flexible and scalable setup, allowing up to 10 microinverters to be connected per branch at 230V, making it ideal for installations requiring adaptability and ease of expansion.

The device is engineered for high efficiency, boasting a nominal MPPT efficiency of 99.5% and a peak efficiency of 95%. It operates with minimal power consumption at night, consuming less than 1W, which maximizes energy savings. The LSMT300TL-H1 supports a wide MPPT voltage range of 16V-48V and can handle an input voltage range of 20V-50V, making it versatile for various PV module specifications.

Its robust mechanical design includes IP66-rated waterproofing, natural convection cooling (without fans), and a lightweight build, weighing just 1.6kg. The microinverter is equipped with advanced features such as WIFI communication for cloud monitoring and mobile/PC browser access, enabling users to monitor system performance remotely.

Additionally, the LSMT300TL-H1 integrates seamlessly with high-frequency transformers, offering galvanic isolation and ensuring the safety and reliability of the power system. This microinverter meets stringent international standards, including EN IEC61000-3-2:2019+A1:2021 and EN IEC55014-2:2021, providing peace of mind with its certified safety and protection functions.

DC Input	Model	LSMT300TL-H1
	Number of input MC4 connector	1 set
	MPPT voltage range	16V-48V
	Operation voltage range	20-50V
	Maximum Input voltage	50V
	Startup voltage	18V
	Maximum input power	300W
	Maximum input current	12A
AC Output	Single-phase grid type	120V&230V
	Rated output power	300W
	Maximum output power	300W
	Nominal output current	@120VAC:2.5A/@230VAC:1.3A
	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:5units/@230VAC:10units
	Nominal MPPT efficiency	99.5%
	Peak efficiency	95%
	Night power consumption	<1W
	Operating ambient temperature range	-40°C to +65°C
	Storage temperature range	-40°C to +85°C

Mechanical Data	Dimensions (L×W×H)	195mm x185mmx40mm
	Weight	1.6kg
	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 LSMT300TL-H1 microinverter is suitable for residential and small-scale commercial PV installations where space optimization, system flexibility, and high efficiency are priorities. It is particularly beneficial in regions with variable shading and orientations, as it allows for the independent operation of each PV module, thereby maximizing overall system output.

Shipping Methods

Supports global air and sea shipping.



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