



## Residential And Small Commercial Solar Installations String Inverters

Our Product Introduction

### Basic Information

- Place of Origin: IEC/EN 61000-6-2/-3
- Brand Name: LS
- Certification: IEC/EN 62109-1/-2
- Model Number: LSI2K5
- Minimum Order Quantity: 66 sets
- Price: consult prices online
- Packaging Details: consult online
- Payment Terms: T/T



### Product Specification

- Max. Efficiency: 97.7%
- Max. Input Voltage: 600V
- MPPT Voltage Range: 90-520V
- Rated Output Power: 2.5kW To 6kW (varies By Model)
- Max. Output Current: 27.3A (for 6kW Model)
- Dimensions: 310mm X 543mm X 160mm
- Weight: 11kg To 12kg (varies By Model)
- Cooling Concept: Natural Convection
- Highlight: **Residential String Inverters, 520V String Inverters, 27.3A solar string inverter**

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## LSBH2K5-6KTL String Inverters for Residential and Small Commercial Solar Installations

- Max. efficiency 97.7%
- String current up to 14A
- Super high frequency switching technology
- Wide voltage range and low startup voltage
- 2 MPPT design with precise MPPT algorithm
- Integrated Export Power Manager (EPM)
- AFCI protection, proactively reduces fire risk
- Compact and lightweight
- Friendly and adaptable connection to the grid

The LSBH2K5-6KTL string inverter is designed for small to medium-scale solar power systems, offering high efficiency and reliable performance. With a maximum efficiency of 97.7%, this inverter optimizes the conversion of DC power from solar panels into AC power for residential or commercial use. It supports a wide voltage range (90-520V) and low startup voltage, making it adaptable to various solar panel configurations. The inverter integrates advanced features such as super high frequency switching technology, 2 MPPT designs with a precise MPPT algorithm, and AFCI protection to reduce fire risks. Compact and lightweight, the LSBH2K5-6KTL inverter ensures a friendly and adaptable connection to the grid, with options for integrated Export Power Manager (EPM) and grid monitoring for enhanced safety and efficiency.

DATASHEET LSBH(2K5~6K)TL							
Models 2.5K 3K 3.6K 4K 4.6K 5K 6K							
Input DC							
Recommended maxPVpower	3.75 kW	4.5 kW	5.4 kW	6 kW	6.9 kW	7.5 kW 9kW	
Max,input voltage	550V	600V					
Rated voltage	250V	330V					
Start-upvotage	60V	120V					
MPPT yoltage range	50-450V90-520V						
Max,inputcurrent	14A/14A						
Max.short circuit current	22 A/22 A						
MPPT number/Max,input strings number	2/2						
Output AC							
Ratedoutput power	2.5 kW	3 kW	3.6 kW	4 kW	4.6 kW	5 kW	6 kW
Max.apparent output power	2.8 kVA	3.3kVA	4 kVA	4.4 kVA	5 kVA	5 kVA	6 kVA
Max,output power	2.8 kW	3.3 kW	4 kW	4.4 kW	5 kW	5kW	6 kW
Bated grd voltage	L,N,PE,220V/230V						
Batedgrid frequency	50 Hz/60 Hz						
Rated grid output current	11.4A/10.9 A	13.6 A/13.0 A	16.0 A/15.7 A	18.2 A/17.4 A	20.9A/20.0 A	22.7 A/21.7A	27.3 A
Max.output current	13.3 A	15.7 A	16.0 A	21.0 A	23.8A	25.0A	27.3A
Powerfactor	>0.99(0.8 leading-0.8 bgging)						
THD	<3%						
Efficiency							
Max effdengy	97.3%	97.3%			97.6%		97.7%
EU effdengy	96.5%	96.6%			97.1%		97.1%
Protection							
DC reverse-polarityprotection	Yes						
Short circuit protection	Yes						
Output over current protection	Yes						
Surge protection	Yes						
Grid monitoring	Yes						
Anti-islanding protection	Yes						
Temperature protection	Yes						
Integrated AFCI(DC arofault circuit protection)	Yes						
Integrated DCswtch	Optional						
GeneralData							
Dimensions (W*H*D	310*543*160 mm						
Weight	11 kg 11.2 kg 12 kg						
Topology	Transformerless						
Sell-consumption(night)	<1W						
Operating ambient temperature range	-25-+60°C						

Relative humidity	0-100%
Ingress protection	IP66
Cooling concept	Natural convection
Max. operation altitude	4000m
Grid connection standard	G98 or G99, VDEAR-N4105/VDEV0124, EN 50549-1, VDE 0126/UTE 15/VFR:2019, RD 1699/RD244/UNE 206006/UNE 206007-1, CEI 0-21, C10/11, NAS 097-2-1, EFS 2018.2, IEC 62116, IEC 61727, IEC 60068, IEC 61683, EN 50530, MEA, PEA
Safety/EMC standard	IEC/EN 62109-1/-2, IEC/EN 61000-6-2/3
Features	
pC connection	MC4 connector
AC connection	Quick connection plug
Display	LCD, 2x20Z.
Communication	RS485, Optional: Wi-Fi, GPRS

#### Application:

This inverter is ideal for residential and small commercial solar installations where efficiency, safety, and grid compatibility are key. It is suitable for locations with varying solar exposure and for systems that require robust protection features such as AFCI and anti-islanding protection. The LSBH2K5-6KTL can also be integrated into systems with Export Power Manager (EPM) to optimize power output and reduce export power when needed.

#### Shipping Methods:

Supports global air and sea shipping.



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