

JSI-5000TL



Benefits:

- Compact size and high power density
- High speed MPPT for real time power tracking and improved energy harvesting
- Transformerless operation for highest efficiency: 97.6% (97% Euro)
- High overload capability: works up to 5000W under most ambient conditions
- Certified grid connected operation according to international standards
- True Sine Wave Output
- Integrated RS-485/RS-232 serial communication
- Multi-language display

Outdoor solar on-grid inverter

Characteristics

Input Data (DC side)

Module Type	JSI-5000TL	
Max. DC power	W	5300
Max. DC voltage	Vdc	550
MPPT operating range	Vdc	100~450
Number of parallel inputs		3
SNumber of MPPT trackers		1
Max. input current (total)	A	25

Output Data (AC side)

Nominal output power	W	4600
Max. output power	W	5000
Nominal output current	A	20
Max. output current	A	23.8
Nominal AC voltage	Vac	230
AC voltage range *	Vac	190~265
Nominal AC grid frequency	Hz	50
AC grid frequency range*	Hz	50 ± 5
Power factor (cos φ)		>0.99
Harmonic distortion (THDI)		<3% (at nominal output power)

Efficiency

Max. efficiency	97.6%
Euro efficiency	97%
MPPT efficiency	99.6%

* AC grid voltage range and frequency range depend on local standards.

General Data

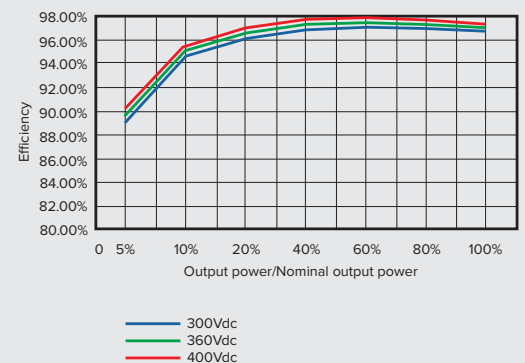
Item	Description
Dimensions (W / D / H)	345*162*573 mm
Net weight	26kg
Operating temperature range	-25 °C ~ +60 °C
Noise emission (typical)	≤ 25 dB(A)
Power consumption at night	0 W
Electrical isolation	Transformer-less
Cooling concept	Natural cooling
IP Code	IP65
Communication	RS-232 (RS-485 is optional)

Model Summary

Model name	Output power
JSI-5000TL	4600W
JSI-5000TL-S	4600W

-S suffix indicate an integrated DC switch

Typical Efficiency Curve



Standards and Codes

JSI inverters comply with standards set for grid-tied operation, safety and electromagnetic compatibility including: VDE0126-1-1, DK5940, AS4777, IEC 62109-1, IEC62109-2, EN50178, EN61000, G83/1, CE certification.