

# JSI INVERTERS

## Outdoor solar on-grid inverter

### JSI INVERTER 1500TL, 2000TL, 3000TL, 5000TL JSI BENEFITS

- Compact size and High power density
- High speed MPPT for real time power tracking and improved energy harvesting. MULTITRACK also available
- Transformerless operation for highest efficiency to 97.6% (95.5% Euro)
- High overload capability  
Works above nominal output power
- Certified grid connected operation according to the international standards
- True Sine Wave Output
- Integrated RS-485/RS-232 serial communication
- Multi-language display



Solar Dynamics Pty Ltd

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CHARACTERISTICS	JSI-1500TL	JSI-2000TL	JSI-3000TL	JSI-5000TL
<b>Input Data(DC side)</b>				
Max. DC power	1750W	2300W	3660W	5300W
Max. DC voltage	450Vdc	500Vdc	500Vdc	550Vdc
MPPT Operating range	100~450Vdc	100~450Vdc	100~450Vdc	100~500Vdc
Number of parallel inputs	1	1	2	3
Number of MPPT trackers	1	1	1	1
Max. input current (total)	9A	10A	20A	25A
<b>Output Data(AC side)</b>				
Nominal output power	1500W	2000W	3000W	4600W
Max. Output power	1650W	2200W	3400W	5000W
Nominal output current	6.5A	8.7A	13A	20A
Max. output current	7.9A	10.5A	15.7A	23.8A
Nominal AC voltage	230Vac	230Vac	230Vac	230Vac
AC voltage range *	190~265Vac	190~265Vac	190~265Vac	190~265Vac
Nominal AC grid frequency	50Hz	50Hz	50Hz	50Hz
AC grid frequency range*	50 ± 5Hz	50 ± 5Hz	50 ± 5Hz	50 ± 5Hz
Power factor(cos φ)	>0.99	>0.99	>0.99	>0.99
Harmonic distortion(THDI)	<3%(at nominal output power)	<3%(at nominal output power)	<3%(at nominal output power)	<3%(at nominal output power)
<b>Efficiency</b>				
Max. efficiency	96.5%	97%	97.2%	97.6%
Euro efficiency	95.5%	96.2%	96.4%	97%
MPPT efficiency	99.6%	99.6%	99.6%	99.6%
<b>General data</b>				
Dimensions (W / D / H)	345*162*354mm	345*162*354mm	345*162*384mm	345*162*573mm
Net weight	12Kg	15Kg	17Kg	26Kg
Operating temperature range	-25°C ~ +60°C	-25°C ~ +60°C	-25°C ~ +60°C	-25°C ~ +60°C
Noise emission (typical)	≤25 dB(A)	≤25 dB(A)	≤25 dB(A)	≤25 dB(A)
Power consumption at night	0 W	0 W	0 W	0 W
Electrical isolation	Transformer-less	Transformer-less	Transformer-less	Transformer-less
Cooling concept	Natural cooling	Natural cooling	Natural cooling	Natural cooling
IP Code	IP65	IP65	IP65	IP65
Communication	RS-232 (RS-485 is optional)	RS-232 (RS-485 is optional)	RS-232 (RS-485 is optional)	RS-232 (RS-485 is optional)

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

## 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.



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