

JSI Series Single-Phase String Inverter



JSI-1100TL~JSI-2500TL

JSI-3000TL, JSI-3600TL

JSI-5000TL, JSI-6000TL

Features

High performance string inverters

- From 1.1kW to 6.0kW
- Wide PV input voltage range
- Rapid MPPT tracking technology
- Superior PV energy harvest
- Transformerless design with higher operation efficiency
- Excellent thermal performance
- High overload capability under most ambient conditions

Full data display and communications

- LCD display energy data
- Bright LED indicators imply system status at a glance
- PC software for remote monitoring and system trouble shooting
- Integrated RS232 serial communications

Easy and affordable to install

- Lightweight and compact size
- Includes a lightweight portable bracket simplifying installation
- Firm IP65 inverter enclosure allows outdoor application

Cost advantages

- Transformerless design cutting down cost
- Light weight and small dimension, to reduce shipping cost
- Low maintenance expense

Certificates

TUV, SAA, CE, CQC, AS4777.2/3, AS/NZS 3100, VDE 0126-1-1, EN62109-1/2, G83, G59, CNCA/CTS0004-2009A, CNCA/CTS0006-2010, EN61000-6-1/2/3/4, EN62109-1/2, RD1663, C10-11

Technical data

Model (JSI-)	1100TL	1500TL	2000TL	2500TL	3000TL	3600TL	5000TL	6000TL
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Input (DC Side)

Max. DC input power (W)	1170	1720	2300	2620	3550	3750	5200	6400
Max. DC voltage (Vdc)	450		500			550		
Start voltage (Vdc)	100	150						
MPPT operating range (Vdc)	80~450	100~450				100~500		
Number of parallel inputs	1		2			3		
Number of MPPT trackers	1							
Max. input current (A)	11.7	10	13	14.5	20	21	22.5	27.5

Output (AC Side)

Nominal output power (W)	1100	1500	2000	2500	3000	3600	5000	6000
Max. output power (W)	1100	1650	2200	2500	3400	3600	5000	6000
Nominal output current (A)	6.5	6.5	8.7	10.8	13	15.7	21.7	26
Max. output current (A)	5.7	7.9	10.5	12.5	15.7	16	24	31.2
Nominal AC output voltage (Vac)	230							
AC Output voltage range (Vac)*	185~265							
AC Grid frequency range (Hz)*	50±5							
Power factor (cosφ)	>0.99							
THDI	<3% (at nominal output power)							

System

Max. efficiency	96.4%	96.5%	97.0%	97.0%	97.2%	97.3%	97.6%	97.6%
Euro. efficiency	95.4%	95.5%	96.2%	96.1%	96.4%	96.5%	97.0%	97.1%
MPPT efficiency	99.6%	99.6%	99.6%	99.6%	99.6%	99.6%	99.6%	99.6%
Operating temperature (°C)	-25~+60							
Noise (typical) [dB (A)]	≤20							
Consumption at night (W)	0							
Electrical isolation	Transformerless							
Cooling concept	Natural cooling							
Degree of protection	IP65							
Communication	RS232 (WiFi optional)							
Dimension (W*D*H mm)	345*152*315		345*152*355		345*152*385		345*152*505	345*162*573
Weight (kg)	12		13		15		19	24

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