



1-3KW Single Phase Single MPPT Grid-tied Inverter

JALPOWER XS & NS series is ideally suited for new-build housing projects or small domestic applications, providing you with a range from 1 to 3 kW models for installations as small as 3 PV modules. The XS & NS series compares favorably to other inverters in the 1-3kW power class due to its small footprint and light weight.

In addition, JALPOWER XS & NS series boasts both the lowest startup voltage of 80V and the widest voltage range from 80 to 450V. A robust, elegantly designed IP65 rated enclosure ensures the inverter is weatherproof, allowing outdoor installation, while contributing to low maintenance needs and enhanced lifespan.

PRODUCT FEATURE

- Lowest startup voltage at 80V
- Wide range of MPPT voltage
- Small, lightweight and easy to install
- Built-in anti-reverse function
- Fanless and quiet

JSI-XS Series

Single MPPT, Single Phase



JSI-NS Series

Single MPPT, Single Phase



Technical Data	JSI-XS-700	JSI-XS-1000	JSI-XS-1500	JSI-XS-2000	JSI-NS-2500	JSI-NS-3000
PV String Input Data						
Max. DC Input Power (W)	910	1300	1950	2600	3250	3900
Max. DC Input Voltage (V)	500	500	500	500	500	500
MPPT Range (V)	50~450	50~450	50~450	50~450	80~450	80~450
Start-up Voltage (V)	50	50	50	50	80	80
MPPT Range for Full Load (V)	80~450	110~450	160~450	210~450	180~450	215~450
Nominal DC Input Voltage (V)	360	360	360	360	360	360
Max. Input Current (A)	12.5	12.5	12.5	12.5	18	18
Max. Short Current (A)	15.6	15.6	15.6	15.6	22.5	22.5
No. of MPP Trackers	1	1	1	1	1	1
No. of Input Strings per Tracker	1	1	1	1	1	1
AC Output Data						
Nominal Output Power (W)	700	1000	1500	2000	2500* ¹	3000* ¹
Max. Output Apparent Power (VA)	800	1100	1650	2200	2500	3000
Nominal Output Voltage (V)	230	230	230	230	220/230	220/230
Nominal Output Frequency (Hz)	50/60	50/60	50/60	50/60	50/60	50/60
Max. Output Current (A)	3.5	4.8	7.2	9.6	12.5	13.5
Output Power Factor	~1 (Adjustable from 0.8 leading to 0.8 lagging)				~1 (Adjustable from 0.8 leading to 0.8 lagging)	
Output THDi (@Nominal Output)	<3%	<3%	<3%	<3%	<3%	<3%
Efficiency						
Max. Efficiency	97.4%	97.4%	97.4%	97.4%	97.5%	97.5%
Europe Efficiency	96.8%	96.8%	96.9%	97.0%	97.0%	97.0%
MPPT Efficiency	99.9%	99.9%	99.9%	99.9%	99.9%	99.9%
Protection						
Anti-islanding Protection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
Input Reverse Polarity Protection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
Insulation Resistor Detection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
Residual Current Monitoring Unit	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
Output Over Current Protection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
Output Short Protection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
Output Over Voltage Protection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
General Data						
Operating Temperature Range (°C)	-25~60	-25~60	-25~60	-25~60	-25~60	-25~60
Relative Humidity	0~100%	0~100%	0~100%	0~100%	0~100%	0~100%
Operating Altitude (m)	≤4000	≤4000	≤4000	≤4000	≤4000	≤4000
Cooling	Natural Convection				Natural Convection	
Noise (dB)	<25	<25	<25	<25	<25	<25
User Interface	LCD & LED	LCD & LED	LCD & LED	LCD & LED	LCD & LED	LCD & LED
Communication	WiFi or LAN	WiFi or LAN	WiFi or LAN	WiFi or LAN	RS485 or WiFi	RS485 or WiFi
Weight (kg)	5.8	5.8	5.8	5.8	7.5	7.5
Size (Width*Height*Depth mm)	295*230*113	295*230*113	295*230*113	295*230*113	344*274.5*128	344*274.5*128
Protection Degree	IP65	IP65	IP65	IP65	IP65	IP65
Night Self Consumption (W)	<1	<1	<1	<1	<1	<1
Topology	Transformerless				Transformerless	
Certifications & Standards						
Grid Regulation	VDE0126-1-1, EN50438(PL)				VDE0126-1-1, AS4777.2, EN50438(PL), G83, ERDF-NOI-RES_13E, IEC61727, IEC62116, CEI 0-21, RD 1699:2011, UNE 206006 IN: 2011, UNE 206007-1 IN: 2013	
Safety Regulation	IEC62109-1&2				IEC62109-1&2	
EMC	EN61000				EN 61000-6-1, EN 61000-6-2, EN 61000-6-3, EN 61000-6-4, EN 61000-4-16, EN 61000-4-18, EN 61000-4-29	

*¹: For CEI 0-21 Nominal Output Power GW1000-NS is 900, GW1500-NS is 1350, GW2000-NS is 1800, GW2500-NS is 2250, GW3000-NS is 2700.