



4-15KW Dual-MPPT, Three-Phase

The JSI-SDT series inverter is specially designed for three-phase home solar systems, covering a wide power range of 4KW, 5KW, 6KW, 8KW, 10KW and 15KW. The integrated two MPPTs allow two-array inputs from different roof orientations. The SDT series inverter is small, light and easy to install. Suitable for both outdoor and indoor installations, this inverter offers a quiet operation thanks to its fanless, natural convection cooling.

PRODUCT FEATURE

- Easy wall mounting
- Super large 5-inch LCD
- RS485 and Wi-Fi communication
- IP65 dustproof and waterproof

Technical Data

	JSI-SDT-4K	JSI-SDT-5K	JSI-SDT-6K	JSI-SDT-8K	JSI-SDT-10KN	JSI-SDT-12KN	JSI-SDT-15KN	
PV String Input Data	Max. DC Input Power (W)	5200	6500	7800	9600	12000	16800	19500
	Max. DC Input Voltage (V)	1000	1000	1000	1000	1000	1000	1000
	MPPT Range (V)	200~800	200~800	200~800	200~850	200~850	200~850	200~850
	Start-up Voltage (V)	180	180	180	180	180	180	180
	MPPT Range for Full Load (V)	195~800	240~800	285~800	380~850	480~850	380~850	480~850
	Nominal DC Input Voltage (V)	620	620	620	620	620	620	620
	Max. Input Current (A)	11/11	11/11	11/11	11/11	11/11	22/11	22/11
	Max. Short Current (A)	13.8/13.8	13.8/13.8	13.8/13.8	13.8/13.8	13.8/13.8	27.6/13.8	27.6/13.8
	No. of MPP Trackers	2	2	2	2	2	2	2
	No. of Input Strings per Tracker	1/1	1/1	1/1	1/1	1/1	2/1	2/1
AC Output Data	Nominal Output Power (W)	4000*1	5000*1	6000*1	8000*1	10000*1	12000	15000
	Max. Output Apparent Power (VA)	4000	5000	6000	8000	10000	14000	16500
	Nominal Output Voltage (V)	400, 3L/N/PE	400, 3L/N/PE	400, 3L/N/PE	400, 3L/N/PE	400, 3L/N/PE	400, 3L/N/PE	400, 3L/N/PE
	Nominal Output Frequency (Hz)	50/60	50/60	50/60	50/60	50/60	50/60	50/60
	Max. Output Current (A)	8.5	8.5	10	12.1	15.2	21.5	24
	Output Power Factor	~1 (Adjustable from 0.8 leading to 0.8 lagging)						
	Output THDi (@Nominal Output)	<2%	<2%	<2%	<2%	<2%	<2%	<2%
	AC Voltage Range (V)	184~264.5	184~264.5	184~264.5	184~264.5	184~264.5	184~264.5	184~264.5
	AC Frequency (Hz)	45~55	45~55	45~55	45~55	45~55	45~55	45~55
Efficiency	Max. Efficiency	98.0%	98.0%	98.0%	98.3%	98.3%	98.3%	98.3%
	Euro Efficiency	>97.5%	>97.5%	>97.5%	>98.0%	>98.0%	>98.0%	>98.0%
Protection	PV String Current Monitoring	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
	Anti-islanding Protection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
	Input Reverse Polarity Protection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
	Insulation Resistor Detection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
	DC SPD Protection	Type III	Type III	Type III	Type III	Type III	Type III	Type III
	AC SPD Protection	Type III	Type III	Type III	Type III	Type III	Type III	Type III
	Residual Current Monitoring Unit	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
	Output Over Current Protection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
	Output Short Protection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
	Output Over Voltage Protection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
General Data	Operating Temperature Range (C)	-25~60	-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%	0~100%
	Operating Altitude (m)	4000	4000	4000	4000	4000	4000	4000
	Cooling	Natural Convection						
	Noise (dB)	<30	<30	<30	<30	<30	<40	<40
	User Interface	LCD & LED	LCD & LED	LCD & LED	LCD & LED	LCD & LED	LCD & LED	LCD & LED
	Communication	RS485 or WiFi	RS485 or WiFi	RS485 or WiFi	RS485 or WiFi	RS485 or WiFi	RS485 or WiFi	RS485 or WiFi
	Weight (kg)	24	24	24	24	24	26	26
	Size (Width*Height*Depth mm)	516*415*192	516*415*192	516*415*192	516*415*192	516*415*192	516*455*192	516*455*192
	Protection Degree	IP65	IP65	IP65	IP65	IP65	IP65	IP65
	Night Self Consumption (W)	<1	<1	<1	<1	<1	<1	<1
	Topology	Transformerless						
	Certifications & Standards	Grid Regulation	VDE0126-1-1, VDE-AR-N 4105, AS4777.2, EN50438(PL), EN50438(SW), EN50438(IR), G83, ERDF-NOI-RES_13E, IEC61727, IEC62116, CEI 0-21		VDE0126-1-1, AS4777.2, G83, IEC61727, IEC62116, EN50438(SW), EN50438(IR)		VDE0126-1-1, AS4777.2, G83, IEC61727, IEC62116, EN50438(SW), VDE-AR-N 4105 EN50438(IR), CEI 0-21	
Safety Regulation		IEC62109-1&2						
EMC		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						

*: Maximum operating voltage is 950V.

*1: For CEI 0-21 Nominal Output Power JSI-SDT-4K is 3605, JSI-SDT-5K is 4550, JSI-SDT-6K is 5450, JSI-SDT-8K is 7250, JSI-SDT-10KN is 9050.