



1.5-3.3kW On-grid Inverter

INS-SI-1.5/2.5/3.3K

97.5%

Max. Efficiency

15A

PV Input Current

60V

Start-up Voltage

110%

AC Overloading

Single-Phase

1 MPPT

DATA SHEET



Optimal Power

- 97.5% Max. Efficiency
- 15A PV input current per string, 1 MPP tracker



Strong Load

- 110% continuous AC output overloading
- 60V Start-up Voltage, longer working hours with low start-up voltage



Convenient Installation & Operation

- Plug & Play terminals for easy wiring
- OLED display and App for setting and data management



Flexible Design & Use

- IP65 for indoor and outdoor installation
- Compact size and elegant appearance

Model		INS-SI-1.5K	INS-SI-2.5K	INS-SI-3.3K
PV Input				
Start-up Voltage	[V]	60	60	60
Max. DC Input Voltage*	[V]	500*	500*	500*
Rated DC Input Voltage	[V]	360	360	360
MPPT Voltage Range*	[V]	50-450*	50-450*	50-450*
No. of MPP Trackers		1	1	1
No. of DC Inputs per MPPT		1	1	1
Max. Input Current	[A]	15	15	15
Max. Short-circuit Current	[A]	20	20	20
Grid Side				
Rated Output Power	[kW]	1.50	2.50	3.30
Max. Output Power	[kW]	1.65	2.75	3.30
Rated Output Apparent Power	[kVA]	1.50	2.50	3.30
Max. Output Apparent Power	[kVA]	1.65	2.75	3.30
Rated AC Voltage		L/N/PE; 220/230/240V		
Rated AC Frequency	[Hz]	50/60	50/60	50/60
Rated Output Current	[A]	6.50	10.90	14.40
Max. Output Current	[A]	7.20	12.00	14.40
Power Factor		0.8 leading ... 0.8 lagging		
Max. Total Harmonic Distortion		<3% @Rated output power		
DCI		<0.5%In	<0.5%In	<0.5%In
Efficiency				
Max. Efficiency		97.3%	97.5%	97.5%
European Efficiency		96.4%	97.0%	97.0%
MPPT Efficiency		99.9%	99.9%	99.9%
Protection				
DC Reverse Polarity Protection			Integrated	
Insulation Resistance Protection			Integrated	
Surge Protection			Integrated	
Over-temperature Protection			Integrated	
Residual Current Protection			Integrated	
Islanding Protection			Integrated	
AC Over-voltage Protection			Integrated	
Overload Protection			Integrated	
AC Short-circuit Protection			Integrated	
General Data				
Over Voltage Category			PV: II Main: III	
Dimensions	[W×H×D mm]		297×220×158	
Weight	[KG]		6.0	
Protection Degree			IP65	
Self-Consumption at Night	[W]		<1	
Topology			Transformerless	
Operating Temperature Range	[°C]		-30~60	
Relative Humidity	[%]		0~100	
Operating Altitude	[m]		3000 (>3000m derating)	
Cooling			Natural Convection	
Noise Level	[dB]		<25	
Display			OLED & LED	
Communication			RS485, WiFi/LAN/4G (Optional)	

* PV Max. Input voltage is 450V, otherwise inverter will be waiting;