

1.5-3.3kW On-grid Inverter

INS-SI-

1.5/2.5/3.3K

97.5% 15A 60V 110%

Max. Efficiency PV Input Current Start-up Voltage AC Overloading



DATA SHEET

Single-Phase

1 MPPT



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

PV Input			
Start-up Voltage	[V]	60	60
Max. DC Input Voltage*	[V]	500*	500*
Rated DC Input Voltage	[V]	360	360
MPPT Voltage Range*	[V]	50-450*	50-450*
No. of MPP Trackers		1	1
No. of DC Inputs per MPPT		1	1
Max. Input Current	[A]	15	15
Max. Short-circuit Current	[A]	20	20
Max. PV Input Power	[%]	200	200
Grid Side			
Rated Output Power	[kW]	1.50	2.50
Max. Output Power	[kW]	1.65	2.75
Rated Output Apparent Power	[kVA]	1.50	2.50
Max. Output Apparent Power	[kVA]	1.65	2.75
Rated AC Voltage		L/N/PE; 220/230/240V	
Rated AC Frequency	[Hz]	50/60	50/60
Rated Output Current	[A]	6.50	10.90
Max. Output Current	[A]	7.20	12.00
Power Factor		0.8 leading ... 0.8 lagging	
Max. Total Harmonic Distortion		<3% @Rated output power	
DCI		<0.5%In	<0.5%In
Efficiency			
Max. Efficiency		97.3%	97.5%
European Efficiency		96.4%	97.0%
MPPT Efficiency		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;