

1.5kW & 2.5kW Grid-tied String Inverter

Optimal power

- Delivers 97.5% maximum efficiency with 15A PV input current and one integrated MPP tracker for performance

Strong load

- Provides 110% continuous AC output overloading with 60V startup voltage for extended low-light operation capabilities

Convenient install & operation

- Features plug-and-play terminals, OLED display, and app-based settings for simplified installation and efficient monitoring

Flexible design & use

- IP65-rated indoor and outdoor protection with compact dimensions and an elegant modern appearance design



Model	INS-SI-1.5K	INS-SI-2.5K
PV Input		
Start-up voltage (V)	60	
Max. DC input voltage* (V)	500*	
Rated DC input voltage (V)	360	
MPPT voltage range* (V)	50-450*	
No. of MPP trackers	1	
No. of DC inputs per MPPT	1	
Max. input current (A)	15	
Max. short-circuit current (A)	20	
Max. PV input power (%)	200	

*PV max. input voltage is 450V, otherwise the inverter will be waiting

Model	INS-SI-1.5K	INS-SI-2.5K
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	
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	

Model	INS-SI-1.5K	INS-SI-2.5K
Efficiency		
Max. efficiency	97.3%	97.5%
European efficiency	96.4%	97.0%
MPPT efficiency	99.9%	
Protection		
DC reverse polarity protection		
Insulation resistance protection		
Surge protection		
Over-temperature protection		
Residual current protection	Integrated	
Islanding protection		
AC over-voltage protection		
Overload protection		
AC short-circuit protection		
General data		
Over Voltage Category	PV: II Main: III	
Dimensions (WxDxH mm)	297 x 220 x 158	
Weight (KG)	6.0	
Protection degree	IP65	
Self-consumption at night (W)	<1	
Topology	Transformerless	
Operating temp. 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)	
MCB protection	10amp; 30mA Type B bi-directional RCD	
Cable recommendation	No less than 2.5mm twin and earth cable (cable length dependant)	