

INV3000NS ON-GRID SOLAR INVERTER (5-16kW)

- Compact and contemporary design
- Unmatched power density
- Highest efficiency in the industry (max. 98.65%)
- Fuseless and fanless design
- Industrial-grade high quality components
- All-round lightning protection
- IP65 waterproof and dustproof
- Smart connected



TECHNICAL SPECIFICATIONS

MODEL	INV3005NS	INV3006NS	INV3008NS	INV3010NS	INV3013NS	INV3016NS
INPUT (DC)						
Max. input power	6.5 kW	7.8 kW	10.4 kW	13 kW	16.9 kW	20.8 kW
Max. input voltage	1000 V					
Start-up voltage	180 V			250 V		
MPPT voltage range	120 - 950 V			200 - 950 V		
MPPT voltage range at full load	185 - 850 V	220 - 850 V	290 - 850 V	370 - 850 V	410 - 850 V	500 - 850 V
Max. input current	14A / 14 A				11 A • 2 / 11 A	
Max. short circuit current	20 A / 20 A				12 A • 2 / 12 A	
Number of MPPTs	2					
Number of DC inputs	A:1 / B:1				A:2 / B:1	
OUTPUT (AC)						
Rated output power	5 kW	6 kW	8 kW	10 kW	13 kW	16 kW
Max. active power	5 kW	6 kW	8 kW	10 kW	13 kW	16 kW
Max. apparent power	5 kVA	6 kVA	8 kVA	10 kVA	13 kVA	16 kVA
Max. output current	7.3 A	8.7 A	11.6 A	14.5 A	18.9 A	23.2 A
Rated grid voltage	230 / 400 V, 3 W + N + PE					
Grid voltage range	176 - 276 V / 304 - 480 V					
Rated grid frequency	50 / 60 Hz					
Grid frequency range	45 - 55 Hz / 55 - 65 Hz					
THD	< 3% (rated power)					
Output current DC component	< 0.5% In					
Power factor	> 0.99 (rated power)					
Power factor adjustable	0.8 leading - 0.8 lagging					
EFFICIENCY						
Max. efficiency	98.65%					
European efficiency	98.2%					
OTHERS						
Protections	Anti-islanding protection, output overcurrent/overvoltage protection, leakage current protection, DC reverse polarity protection, DC/AC surge protection, ground insulation resistance detection, DC switch (standard), PID prevention and restoration (optional)					
Communications	RS485, Wi-Fi/Ethernet (optional), GPRS (optional)					
Display	LED, Bluetooth (optional)					
Self-consumption at night	< 1 W					
IP rating	IP 65					
Cooling	Natural cooling					
Isolation	Transformerless					
Standards	IEC/EN 62109-1, IEC/EN 62109-2, VDE AR-N-4105, AS/NZS 4777.2, CEI 0-21, EN 50438, IEC 61683, IEC 61727, IEC 62116, EN 61000-6-1, EN 61000-6-2, EN 61000-6-3, EN 61000-6-4					
Operating temperature	-25°C - +60°C (> 45°C downgrading)					
Relative humidity	0 - 100% (non-condensing)					
Altitude	2000 m					
Dimensions (WxDxH) (mm)	515x166.5x435					
Weight (kg)	25					

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