

INV1000NS ON-GRID SOLAR INVERTER (3-7kW)

- Compact and light weight
- Contemporary design
- Unmatched power density
- High efficiency 98.4% (High efficiency model)
- Wide MPPT range 90 ~ 550V
- Industrial-grade high quality components
- IP65 waterproof and dustproof
- Intelligent monitoring via smart phone



TECHNICAL SPECIFICATIONS

MODEL	INV1003NS	INV1003.68NS	INV1004NS	INV1004.6NS	INV1005NS	INV1006NS	INV1007NS
INPUT (DC)							
Max. input power	3900 W	4800 W	5200 W	6000 W	6500 W	7800 W	7800 W
Max. input voltage	600 V						
Start-up voltage	120 V						
MPPT voltage range	90 - 550 V						
Rated input voltage	360 V						
MPPT voltage range at full load	120 - 480 V	140 - 480 V	150 - 480 V	180 - 480 V	190 - 480 V	230 - 480 V	270 - 480 V
Max. input current	15 A x 2						
Max. short circuit current	20 A x 2						
Number of MPPTs	2						
OUTPUT (AC)							
Max. output power	3000 W	3680 W	4000 W	4600 W	5000 W (EUR)	6000 W	7000 W
Max. output current	13 A	16 A	17.4 A	20 A	21.8A (EUR)	26.1 A	30.5 A
Rated grid voltage	Single phase 230 VAC						
Grid voltage range	180 - 280 Vac						
Rated grid frequency	50/60Hz						
Grid frequency range	45-55Hz / 55-65Hz						
THD	< 3% (rated output power)						
DC component	< 0.5% x rated output current						
Power factor	> 0.99 (rated output power)						
Power factor adjustable	0.8 leading ~ 0.8 lagging						
EFFICIENCY							
Max. efficiency	97.8%						
European efficiency	97.3%						
OTHERS							
Protections	Islanding protection, output short-circuit protection, leakage current protection, DC reverse polarity protection, DC input impedance detection, DC switch						
Communications	RS485, Wi-Fi/Ethernet (optional), GPRS (optional)						
Display	LED indicators						
Self-consumption at night	< 0.5W						
IP rating	IP 65						
Cooling	Natural cooling						
Installation method	Wall-mounted						
DC wiring terminal	MC4						
AC wiring terminal	Plug and play						
Standards	IEC/EN 62109-1, IEC/EN 62109-2, VDE 0126-1-1, VDE AR-N-4105, AS/NZS 4777.2, CEI 0-21, EN 50438, IEC 61683, IEC 61727, IEC 62116, ABNT NBR 16149, ABNT NBR 16150						
Operating temperature	-25°C - +60°C (> 45°C downgrading)						
Relative humidity	0% - 100% (non-condensing)						
Altitude	4000 m (> 2000 m downgrading)						
Noise	< 40 dB						
Dimensions (WxDxH) (mm)	370x126.5x420						
Packaged dimensions (WxDxH) (mm)	440x205x490						
Net weight (kg)	10.9						
Gross weight (kg)	12.5						

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