

INV3000NS ON-GRID SOLAR INVERTER (20-30kW)

- Compact and contemporary design
- Unmatched power density
- Highest efficiency in the industry (max. 98.9%)
- Fuseless and fanless design
- Industrial-grade high quality components
- All-round lightning protection
- IP65 waterproof and dustproof
- Smart connected



TECHNICAL SPECIFICATIONS

MODEL	INV3020NS	INV3025NS	INV3030NS
INPUT (DC)			
Max. input power	26 kW	32.5 kW	39 kW
Max. input voltage	1100 V		
Start-up voltage	250 V		
Rated voltage	600V		
MPPT voltage range	200 - 950 V		
MPPT voltage range at full load	470-850V		
Max. input current	22 A / 22 A	33 A / 22 A	33 A / 33A
Max. short circuit current	24 A / 24 A	36 A / 24 A	36 A / 36 A
Number of MPPTs	2		
Max. input strings	A:2 / B:2	A:3 / B:2	A:3 / B:3
OUTPUT (AC)			
Rated output power	20 kW	25 kW	30 kW
Max. active power	20 kW	25 kW	30 kW
Max. apparent power	20 kW	25 kW	30 kW
Max. output current	29.0 A	36.3 A	43.5 A
Rated grid voltage	230 / 400 V, 3 W + N +PE		
Grid voltage range	176 - 276 V / 304 - 480 V		
Rated grid frequency	50/60Hz		
Grid frequency range	45-55Hz / 55-65Hz		
THD	< 3% (rated power)		
Output current DC component	< 0.5% I _n		
Power factor	> 0.99 (rated power)		
Power factor adjustable	0.8 leading ~ 0.8 lagging		
EFFICIENCY			
Max. efficiency	> 98.9%		
European efficiency	> 98.5%		
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	< 1W		
IP rating	IP 65		
Cooling	Natural cooling		
Isolation	Transformerless		
Standards	IEC/EN 62109-1, IEC/EN 62109-2, CEI 0-21, EN 50549-1, 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)	635x225x480		
Weight (kg)	43		

TESCOM reserves the right to change all information in the catalog without notice.