

# SOLAR Inverters

## On-Grid Three Phase 20-30K

The ultimate three phase On-grid Solar Inverter by Tescom has the highest efficiency in the industry (max. 98.9%). It is built with high quality industrial-grade materials and non-rusting aluminum casing. It features 2 MPPT with up to 3 strings per MPPT and very low THD (<3% rated power), for uninterrupted power and lossless performance. It Self-adapts to weak grids and unstable power sources and has unmatched power density. It can connect to a smart phone for remote control and configuration via WiFi.



**WiFi**  
Connect your Inverter with your smart phone via WiFi. Monitor status, get notifications and change settings.



Waterproof, dustproof and all-weather.



10 years warranty replaceable for hardware failure.

## ΓΕΝΙΚΑ ΧΑΡΑΚΤΗΡΙΣΤΙΚΑ

- Compact and light weight
- Contemporary design
- Unmatched power density
- Highest efficiency in the industry (max. 98.9%)
- Non-rusting aluminum casing
- Industrial-grade high quality components
- Fuseless and fanless design
- IP65 waterproof and dustproof
- Remote wireless data transmission and cloud storage
- Smart phone connectivity
- All-round lightning protection

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On-GRID Three Phase 20-30K



MODEL	INV3020NS	INV3025NS	INV3030NS
<b>INPUT DC</b>			
Max. input power	26 kW	32.5 kW	39 kW
Max. input voltage	1100 V		
Start-up voltage	250 V		
MPPT voltage range	200 - 950 V		
MPPT voltage range at full load	470 - 850 V		
Max. input current	22 A / 22 A	33 A / 22 A	33 A / 33 A
Max. short circuit current	24 A / 24 A	36 A / 24 A	36 A / 36 A
Number of MPPTs	2		
Number of DC inputs	A:2 / B:2	A:3 / B:2	A:3 / B:3
<b>OUTPUT AC</b>			
Rated output power	20 kW	25 kW	30 kW
Max. active power	20 kW	25 kW	30 kW
Max. apparent power	20 kVA	25 kVA	30 kVA
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 / 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		
<b>EFFICIENCY</b>			
Max. efficiency	98.9%		
European efficiency	98.5%		
<b>OTHERS</b>			
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/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, VDE 0126-1-1, IEC 62116, EN 61000-6-1, EN 61000-6-2, EN 61000-6-3, EN 61000-6-4		
Operating temperature	-25C° ~ +60C° (> 45C° downgrading)		
Relative humidity	0 ~ 100% (non-condensing)		
Altitude	2000 m		
Dimensions (W x D x H) (mm)	635 x 225 x 480		
Net weight (kg)	43		

The AC voltage and frequency range may vary depending on specific country grid.

**Disclaimer:**

Data in this document are tested under specified conditions. It may result in difference between actual results and these data due to some uncertain factors. The statement about this product is for reference only. It makes no representation or warranty.

All specifications are subject to change without notice.