

TP Grid Tied Solar Inverter Series

Rating: 12KW – 20KW

Output Voltage: 400VAC

Configuration: Rackmount

TP Grid Tied Solar Inverter series is a three-phase grid-tied solar inverters that adopt the latest technologies combination of T type three level topology and SVPWM, provide flexible system configuration and monitoring solutions for household, commercial and power plant systems.

Product Highlights:

Efficient

- Integrated intelligent DC combiner and surge protection improve system flexibility and lower the system cost.
- Max efficiency is up to 98.6%, wide input voltage range, adapt to all kinds of solar panels and string configuration.
- Dual MPPTs work independently and allow unbalanced input power. One MPPT maximum input is up to 60% of Max. DC power.
- Adopt the latest technologies and combination of T-type three level topologies and SVPWM.
- Reactive power control and Power factor adjustable: 0.8 leading ~ 0.8 lagging.

Reliable

- IP65 protection level, suitable for various installation environments.
- Bus capacitors consist of advanced film capacitors, designed with the latest thermal simulation technology for longer lifespan.

Smart

- AC output power is adjustable between 1-100%.
- Smart grid adaptive to meet the requirements of various power grid accesses.
- Variety of monitoring modes: APP (one-button registration), large screen data monitoring center, cloud monitoring platform.
- Support RS485, GPRS, WIFI, Ethernet.

Simple

- High power density, small size.
- Modular design, easy to maintain.



Accessories:



WiFi 200 / GPRS
Via RS485 interface



Data Webbox
Support up to 16 inverters



APPs
for iOS and Android



Web monitoring
With INVT Cloud server

MODEL	TGT-12KM		TGT-15KM	TGT-17KM
Input (DC)				
Max. DC voltage (V)	1000			
Starting voltage /Min. operation voltage (V)	200/180			
Starting power (W)	150			
MPPT Operating Voltage Range (V) / Rated Voltage	180- 800/610V			
Rated power voltage range (V)	350 - 800	400 - 800	400 - 800	
Number Of MPPT /	2/2			
String Per MPPT				
Max. DC Power (W)	12500	15600	17500	
Max. DC Current (A) Per MPPT x Number Of MPPT	19x2	21x2	23x2	
DC switch	Integrated			
Output (AC)				
Rated power (W)	12000	15000	17000	
Max AC Current (A)	20	24	28	
Rated AC Voltage And Range/ Rated Grid frequency And Range	3/PE, 230/400V, (320~460V), 3/PE,220/380V, (320~460V) 50Hz (47~51.5Hz) / 60Hz (57~61.5Hz)			
	According to VDE0126-1-1, VDE-AR-N4105, CQC, G59/3, C10/11, AS4777/3100.			
Power factor	-0.8~+0.8 (Adjustable)			
THD	< 3% (at rated power)			
AC connection	Three-phase (L1, L2, L3, PE) or (L1, L2, L3, N, PE)			
System				
Cooling method	Smart Cooling method			
Max Efficiency	98.20%	98.30%	98.30%	
Euro-Efficiency	97.60%	97.80%	97.80%	
MPPT Efficiency	99.90%			
Degree of protection	IP65			
Self-consumption (at night)	<0.5W			
Topology	Transformerless			
Operating temperature range	-25 ~+60 (derate after 45			
Relative humidity	0~95%, no condensation			
Protection Functions	DC isolation monitoring, DC monitoring, grounding fault monitoring, grid monitoring, island protection, overvoltage and short circuit protection, etc			
Noise	< 50dB			
Display and communication				
Display	3.5 inches LCD display, support backlit display			
System language	English, Chinese, German, Dutch			
Key	Integrated			
Communication interfaces:	RS485 (Standard),WiFi, Ethernet (Optional)			
Mechanical parameters				
Dimension (H x W x D mm)	610x480x204			
Weight (kg)	38			
Installation	Wall mounting			
Others				
DC terminal	BC03A, BC03B (PV-FT-CF-C-4-300-BU (-); PV-FT-CM-C-4-300-RD (+), Helios H4 4mm²)			
Certifications	VDE0126-1-1, VDE-AR-N4105, CQC, G59/3, C10/11, AS4777/3100. EN61000-6-1:4, EN61000-11:12, IEC62109-1:2010, PEA, LVRT			

* Specifications are subject to change without prior notice

