

TP Grid Tied Solar Inverter Series

Rating: 20KW – 35KW

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-20KM	TGT-25KM	TGT-30KM	TGT-33KM	TGT-35KM
Input (DC)					
Max. DC voltage (V)	1000				
Starting voltage /Min. operation voltage (V)	300/280				
Starting power (W)	150				
MPPT Operating Voltage Range (V) / Rated Voltage	280 - 800/610V				
Rated power voltage range (V)	450 - 800	480 - 800	480 - 800	500-800	550-800
Number of MPPT / String Per MPPT	2/3			2/4	
Max. DC Power (W)	20800	26000	31200	36000	38000
Max. DC Current (A) Per MPPT x Number Of MPPT	25x2	30x2	33x2	33x2	33x2
DC switch	Integrated				
Output (AC)					
Rated power (W)	20000	25000	30000	33000	35000
Max AC Current (A)	32	40	48	48	48
Rated Grid frequency And Range	50Hz (47~51.5Hz) / 60Hz (57~61.5Hz) According to VDE0126-1-1, VDE-AR-N4105, CQC, G59/3, C10/11, AS4777/3100, PEA				
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	98.40%	98.40%	98.50%	98.50%	98.50%
Euro-Efficiency	98.00%	98.00%	98.00%	98.10%	98.10%
MPPT Efficiency	99.9%				
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	DC isolation monitoring, DC monitoring, grounding fault monitoring, grid monitoring, island protection, overvoltage and short circuit protection, etc.				
Noise	< 50dB				
Display and communication					
Display	3.5inches 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)	660x525x250				
Weight (kg)	52				
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	TUV, CE, VDE0126-1-1, VDE-AR-N4105, G59/3,C10/11, TF3.2.1, AS4777/3100,CQC EN61000-6-1:4, EN61000-11:12, IEC62109-1:2010, PEA,ZVRT,LVRT				

* Specifications are subject to change without prior notice