

Residential Series

**INVERGY**  
UPGRADING POWER FOR BETTER FUTURE

# Three Phase Solar GTI







## INV TP Series

INV 5.0 TP  
INV 10.0 TP  
INV 18.0 TP


INV 6.0 TP  
INV 12.0 TP  
INV 20.0 TP


INV 8.0 TP  
INV 15.0 TP  
INV 25.0 TP



-  Patented Cooling Design
-  Unique H6 Topology Prevents Leakage Current
-  IP 66 Rated
-  AFCI (Optional)
-  Wide Range Of AC Grid Voltage Up To 290 Volt
-  Within 24 Hours Replacement, 365 Days Up-time



 Toll Free No. 1800 309 7880

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 [www.invergypowersupply.com](http://www.invergypowersupply.com)

Model	INV 5.0 TP	INV 6.0 TP	INV 8.0 TP	INV 10.0 TP	INV 12.0 TP	INV 15.0 TP	INV 18.0 TP	INV 20.0 TP	INV 25.0 TP	
<b>Input (DC)</b>										
Recommended max. PV input power	6500Wp	7800Wp	10400Wp	13000Wp	15600Wp	19600Wp	23400Wp	26000Wp	32500Wp	
Max. PV input voltage	1000V									
Min. working voltage	250 VDC									
Rated PV input voltage	1100 VDC									
MPPT voltage range	160 - 1100 VDC						200 - 1100 VDC			
No. of independent MPPT inputs	1				2					
Default No. of PV strings per MPPT	1									
Max. PV input current	18 A						26/26 A		36/26 A	
Max. DC short-circuit current	25 A						34/34 A		46/34 A	
<b>Output (AC)</b>										
Nominal AC output power	5000 W	6000 W	8000 W	10000 W	12000 W	15000 W	18000 W	20000 W	25000 W	
Max. AC Output power	5500 VA	6600 VA	8800 VA	11000 VA	13200 VA	16500 VA	19800 VA	22000 VA	27500 VA	
Max. AC output current	7.25 A	8.7 A	11.6 A	14.5 A	17.4 A	21.74 A	26.1 A	29 A	36.23 A	
Nominal AC output voltage Range	50/60 Hz, 400 Vac									
AC voltage range	280 - 490 Vac									
Rated grid frequency / Grid frequency range	50 Hz / 45 - 55 Hz, 60 Hz / 55 - 65 Hz									
Harmonic ( THD )	< 5 % ( at rated power )						< 1.5 % ( at rated power )			
Power factor at rated power / Adjustable power factor	~1 / (Adjustable 0.8 leading - 0.8 lagging)									
<b>Efficiency</b>										
Max. efficiency	98.20%	98.30%	97.40%	99.50%	98.50%					
MPPT efficiency	99.90%									
<b>Protection</b>										
Grid monitoring	Yes									
DC reverse polarity protection	Yes									
short-circuit protection	Yes									
Leakage current protection	Yes									
Surge Protection	Yes									
DC switch	Yes									
Anti Islanding/Overvoltage Protection	Yes									
Residual current protection	Yes									
<b>General Data</b>										
Dimensions ( W * H * D )	480 mm * 476 mm * 157 mm						520mm * 510mm * 160mm			
Weight	16 kg						23 kg			
Mounting method	Wall-mounting bracket									
Topology	Transformerless									
Degree of protection	IP65 according to IEC60529									
Operating ambient temperature range	-25 °C - 60 °C									
Allowable relative humidity range ( non-condensing )	0 - 95 %, No Condensation									
Cooling method	Smart cooling									
Max. operating altitude	3000m Without power derating									
Display	LCD									
Communication	Wifi Standard, RS485, GPRS									
DC connection type	MC4 Compatible Connector									
Acoustic noise level (dB)	<30									
Warranty	8 Years									
<b>Standards and Compliance</b>										
Grid compliance	CE-(EMC/LVD): EN(IEC) 61000-1/-2/-3/; EN(IEC) 62109-1/-2, BIS, IEC 60068-2, IEC 61683:1999, IEC 61727:2004, IEC 62116:2014, IEC/EN 62109-1, IEC/EN 62109-2, IEC 61000									