

3 Phase Solar On Grid Inverter GTI 050kW



Features :

- Max. efficiency : 98.80%, MPPT efficiency : >99.9%
- Three independent MPP trackers.
- Anti-Islanding protection
- IP65 protection
- Wide voltage range & low startup voltage
- Remote monitoring and intelligent maintenance
- Forced cooling convection

Main

Product name	GTI050
Product or component type	Grid Tie Inverter

Input Specification

DC INPUT (PV SIDE)	
Nominal DC Input Power	50000 W
Max. Allowable PV Power	75000 W
Nominal PV voltage	600V DC
Max. DC input voltage	1000V DC
Startup voltage	200V DC
Operating Range	180 - 1000V DC
MPPT voltage Range	200 - 1000V DC
Max input current per MPPT	40 / 30 / 30A
No. of MPP trackers	3
Max. Input strings number	10
Max. PV short circuit current per MPPT (Isc)	55.5A

Output specifications

AC output (Grid side)	
Rated output power	50000 W
Max AC power	55000 W
Nominal AC current, RMS	69.44A
Max. output current	83.3A
Grid voltage range	277 - 460V AC (adjustable)
Grid frequency range	45-55Hz
Power factor (at rated output power)	~ 1 (Adjustable from 0.8 leading... 0.8 lagging)
Total harmonic distortion [THDi]	<3% at rated load
load Feed-in phase/connection phase	Three Phase

Interface

DC Connection	MC4 Connectors
Display	LCD with LED indications
Datalogger & Communication	RS485 / WiFi / GSM* (Optional)

Efficiency

Maximum efficiency	98.90%
MPPT efficiency	>99.9%
Euro efficiency	98.40%

Protection functions

DC Reverse polarity protection	Yes
Short circuit protection	Yes
Over current protection	Yes
Over voltage / Under voltage protection	Yes
Over frequency / Under frequency	Yes
Insulation resistance monitoring	Yes
Residual current detection	Yes
Surge protection	Yes
Islanding protection	Yes
Temperature protection	Yes
Integrated DC Switch	Yes
Integrated AFCI (DC arc-fault circuit protection)	Optional

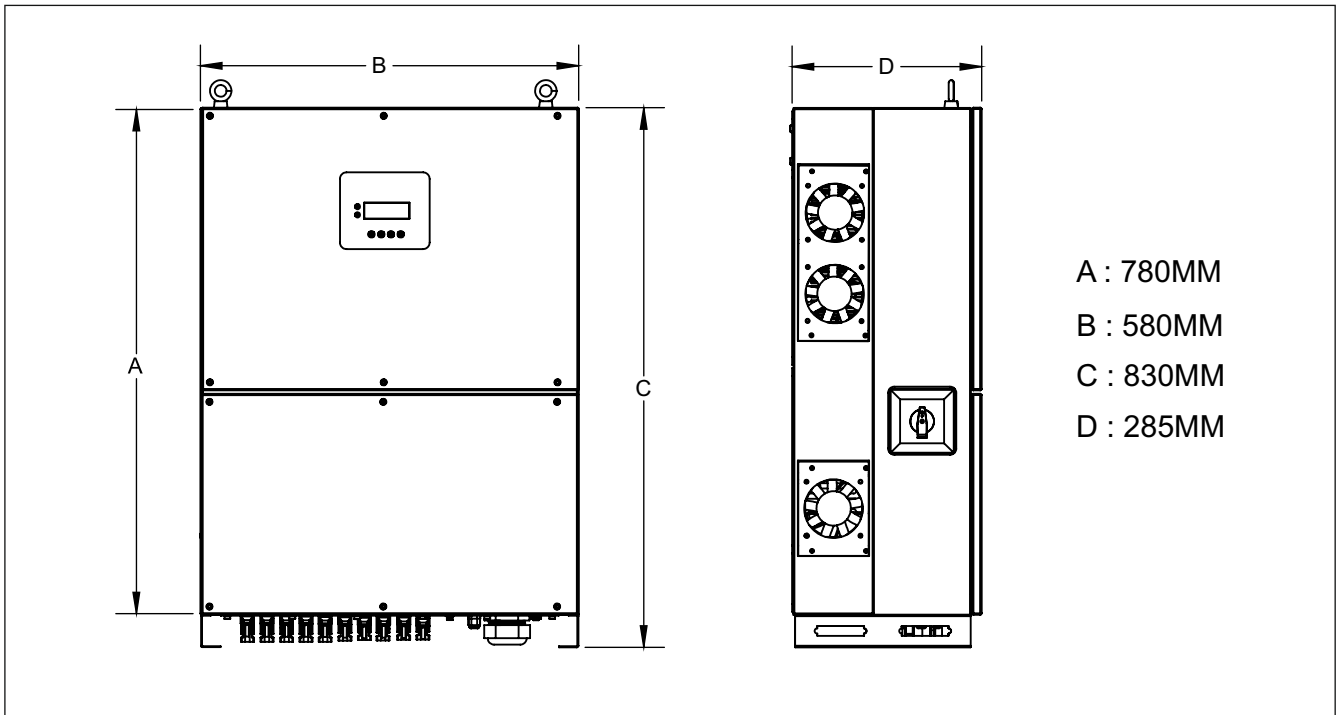
General data

Topology	Transformerless
Consumption @ night	<1W
Operating temperature range	-25 to 60°C
Cooling method	Forced Cooling
Relative humidity	0 to 100% non-condensing
Max. Operational altitude	4000m
Noise	<60 dBA
Designed lifetime	>20 years
Warranty	10 years
Ingress protection	IP65
Dimensions (W*H*D)	580x830x295 mm
Net weight	86 kg (Approx)
Mechanical integration	Wall mountable

Standards

Certifications	IS 16221-1/2, IS 16169 IEC 62109-1/2 , IEC 62116
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Dimensions (All are in mm)



A : 780MM

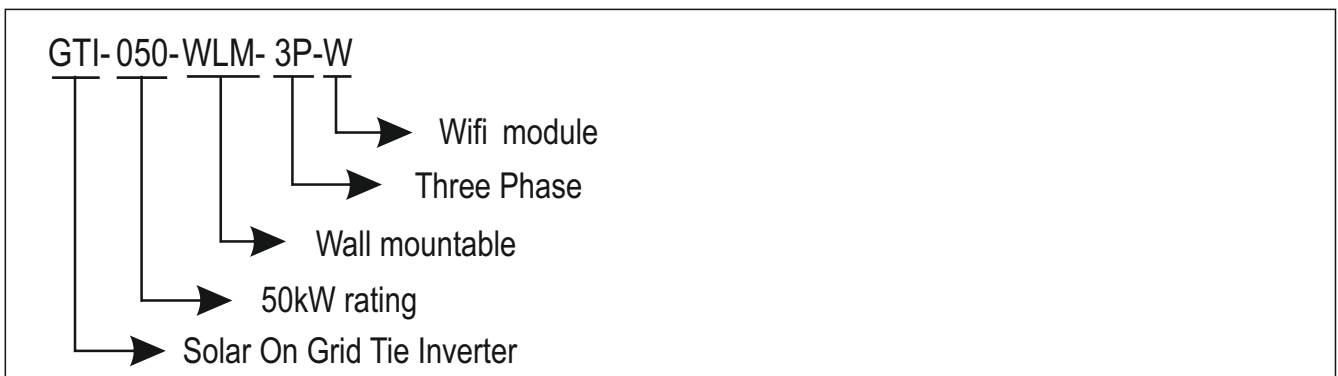
B : 580MM

C : 830MM

D : 285MM

Ordering Information

Product Code	Description
GTI050WLM3PW	Grid Tie Inverter - 3 Phase / 50kW, Wall Mounted With Wifi Module



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