

SOLAR ON GRID INVERTER

SINGLE PHASE



**Designed &
Manufactured
in INDIA**



4.2kW, 5.2kW, 6kW



1.5kW, 2.5kW, 3.3kW

>97% efficiency

Low start-up voltage

**Compatible with 545W bi-facial
solar panel**

Built-in zero export device*

IP-65

Anti-islanding

Remote monitoring



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TECHNICAL SPECIFICATION

SYSTEM	SINGLE PHASE					
RATINGS	1.5kW	2.5kW	3.3kW	4.2kW	5.2kW	6kW
MODEL	GTI001WLM1PW2	GTI002WLM1PW2	GTI003WLM1PW2	GTI004WLM1PW	GTI005WLM1PW	GTI006WLM1PW
INPUT SPECIFICATIONS (DC)						
Max. allowable PV power (kW)	2.1	3.5	4.2	5.9	7.2	8.1
Nominal PV voltage (V)	360					
Max. DC input voltage (V)	550					
Start-up voltage (V)	50V			80V		
Operating range (V)	50-550			65-550		
MPPT voltage range (V)	50-550			65-550		
Max input current per MPPT (A)	17					
Number of MPPT	1			2		
Max input strings number	1			2		
Maximum PV short circuit current per MPPT (Isc)	20/30					
OUTPUT SPECIFICATIONS (AC)						
Rated output power (kW)	1.5	2.5	3.3	4.2	5.2	6
Max. AC power (kVA)	1.5	2.5	3.3	4.2	5.2	6
Nominal AC current, RMS (A)	6.3	10.4	13.8	17.5	21.7	25
Max. output current (A)	7.1	11.9	16	19	23.6	27.2
Grid voltage range (V)	180-290V					
Grid frequency range (Hz)	50 (45 - 55Hz)					
Power factor (at rated output power)	>0.99 (adjustable from 0.8 leading to 0.8 lagging)					
Total harmonic distortion (THDi)	<3% at rated load					
Feed-in phase / Connection phase	Single Phase					
EFFICIENCY						
Max. efficiency (%)	97.4			98.4		
MPPT efficiency (%)	>99.9					
Euro efficiency (%)	97.1			97.5		
INTERFACE						
DC connection	MC4 connectors					
Display	LCD with LED indication					
Datalogger & Communication (optional)	RS485 / Wi-Fi / GSM					
GENERAL DATA						
Topology	Transformerless					
Consumption @ night (W)	<0.5 W			<1 W		
Operating temperature range	-25 °C to +60 °C					
Cooling method	Natural convection					
Relative humidity	0 to 100% non-condensing					
Max. operational altitude	4000 m					
Noise (dBA)	<25 dBA					
Designed lifetime	>20 years					
Warranty	10 years					
Ingress protection	IP65					
Dimensions in mm (W*H*D)	275*313*131			375*394*156		
Net weight (Kg)	5.2			10.8		
Mechanical integration	Wall mountable					
CERTIFICATIONS						
Safety	IS 16169: 2014 / IEC 62116, IS 16221 (part 2): 2015 / IEC 62109-2: 2011					
Environmental	IEC 60068-2-1, 2, 6 ,14, 21, 27, 30, 75 & 78, IEC 60529					
Electrical	IEC 61727, IEC 61683, IEC 62891, IEC 61000					
Protection (built-in)	DC reverse polarity protection, Short circuit protection, Over current protection, Over voltage / Under voltage protection, Over frequency / Under frequency, Insulation resistance, Monitoring, Residual current detection, Surge protection, Islanding protection, Temperature protection					
Protection (optional)	Integrated DC switch, Integrated AFCI (DC ARC-Fault circuit protection)					

NOTE : * Connect external CT to activate built-in zero export device.

ELECTRICAL MEASUREMENT | ELECTRICAL PROTECTION & CONTROL | POWER QUALITY SOLUTION | SOLAR | PROCESS MEASUREMENT & CONTROL | INDUSTRIAL AUTOMATION

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