

PRELIMINARY
DATASHEET

Features :

- Max. efficiency : 98.3%, MPPT efficiency : >99.5%
- Dual independent MPP trackers
- Anti-Islanding protection
- IP65 protection
- Wide voltage range & low startup voltage
- Remote monitoring and intelligent maintenance
- Natural cooling convection

Input specifications

DC INPUT (PV SIDE)	
Nominal DC Input Power	6000 W
Max. Allowable PV Power	7500 W
Nominal PV voltage	630V DC
Max. DC input voltage	1000V DC
Startup voltage	180V DC
Operating Range	160V DC – 1000V DC
MPPT voltage Range	160V DC – 1000V DC
Max input current per MPPT	11.6/11.6A
No. of MPP trackers	2
Max. Input strings number	2
Max. Input strings number MPPT (Isc)	16A

Output specifications

AC output (Grid side)	
Rated output power	6000 W
Max AC power	6600 W
Nominal AC current, RMS	8.33A
Max. output Current	10A
Grid voltage range	320 - 480V AC
Grid Frequency range	50/60 Hz (45-55Hz / 55-65Hz)
Power Factor (at rated output power)	~ 1 (Adjustable from 0.8 leading... 0.8 lagging)
Total harmonic distortion [THDi]	<3% at rated load
Feed-in phase/connection phase	Three Phase

Interface

DC Connection	2 Pairs of MC4
Display	LCD (16 x 2)
Datalogger & Communication	RS485 / GSM* / Wifi* (Optional)

Efficiency

Maximum efficiency	98.30%
MPPT Efficiency	>99.5
Euro Efficiency	97.7%

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

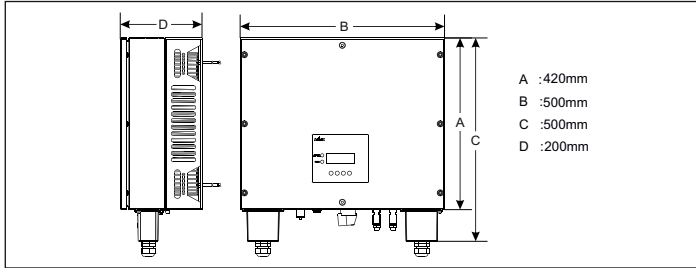
General data

Topology	Transformerless
Consumption @ night	< 1W
Operating Temperature Range	-25 to 60°C
Cooling Method	Natural
Relative Humidity	0 to 100% non condensing
Max. Operational Altitude	3000m
Noise	< 30dBA
Designed Lifetime	>20 years
Warranty	5 years
Ingress Protection	IP65
Dimensions (W*H*D)	500*500*200 mm
Net weight	26 kg
Mechanical Integration	Wall mountable

Standards

Certifications	IS 16221-1 /2, IS 16169 , IEC62109-1/2 ,IEC62116
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Dimensions (All are in mm)



Ordering Information

Product code	Reference ID	Certification
GTI 6kW	GTI006WLM3PW	- - -

