

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 | 10000 W |
| Max. Allowable PV Power | 12500 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. PV short circuit current per MPPT (Isc) | 16A |

Output specifications

| AC output (Grid side) | |
|--------------------------------------|--|
| Rated output power | 10000 W |
| Max. output power | 11000 W |
| Nominal AC current, RMS | 13.9A |
| Max. output Current | 16A |
| 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 | 97.9% |

Protection

| | |
|---|----------|
| 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 |

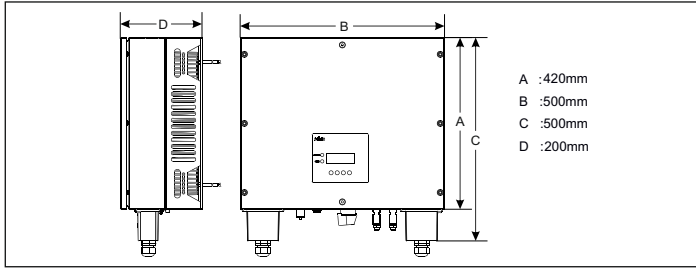
General data

| | |
|-----------------------------|--------------------------|
| 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 |
|----------------|---|

Dimensions (All are in mm)



Ordering Information

| Product code | Reference ID | Certification |
|--------------|--------------|---------------|
| GTI 10kW | GTI010WLM3PW | --- |

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| <p>GTI-010-WLM-3P-W</p> <ul style="list-style-type: none"> → Solar Grid Tie Inverter → 10kW rating → Wall mountable → Three Phase → Wifi module |
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