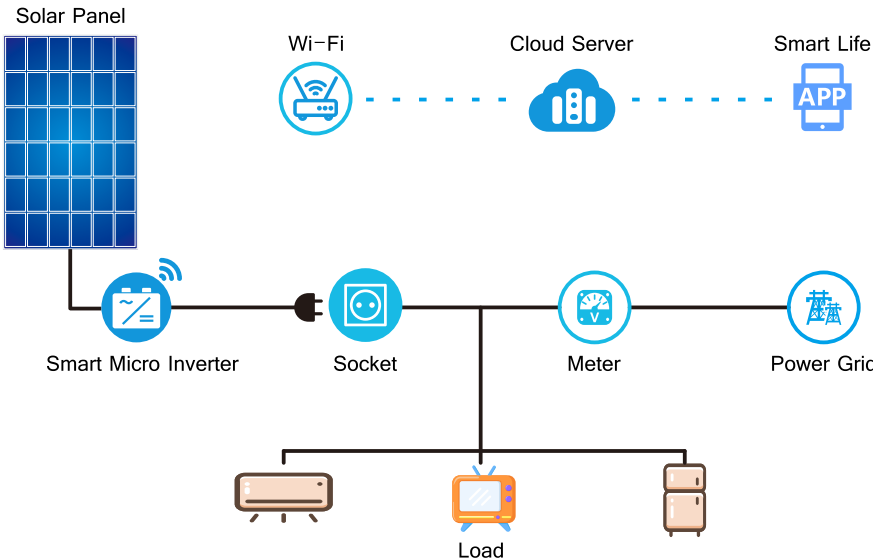




GTMI 1000
Micro Inverter User's Manual

SYSTEM STRUCTURE AND MONITORING MODE



Plug and play: users simply connect the inverter's input and output terminals to the corresponding connections and then plug it into a household outlet. The inverter will automatically enter operation after 30 seconds. When the inverter is installed within Wi-Fi coverage, customers can install the "Smart Life" app on their mobile phone to remotely monitor and control the device.

About Inverter

GTMI-1000 Smart Micro Inverters belong to a series of micro inverters. Each inverter can be connected to two photovoltaic module. This series of microinverters can efficiently convert direct current (DC) into alternating current (AC) that meets the requirements of the grid, and feed the power into the grid. Each inverter in the GTMI-1000 series operates independently and monitors the power generation status of each photovoltaic module in real time to ensure the maximum power generation of each photovoltaic module and improve the flexibility and availability of the system. and reliability.

About the manual

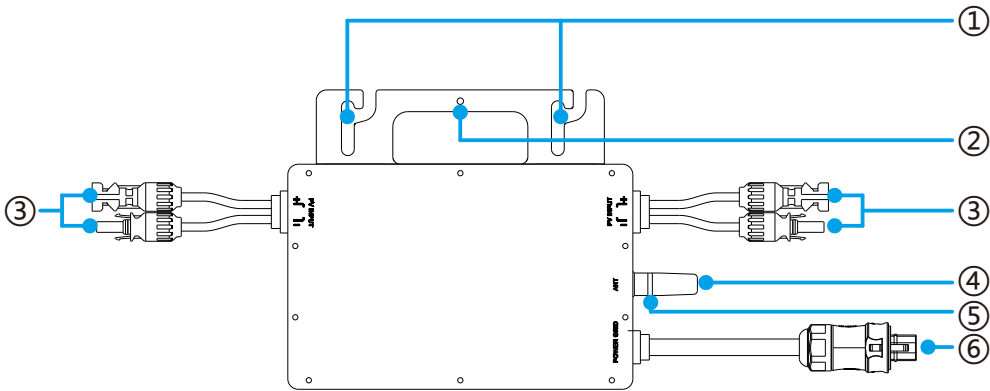
This manual contains important instructions about the GTMI-1000 micro inverter. Users should read this manual thoroughly before installing or debugging the micro inverter. For safety reasons, technicians responsible for installing, operating, and maintaining this micro inverter must have appropriate qualifications, receive relevant training, and master relevant skills. They should strictly follow the instructions contained in this manual during installation, operation, and maintenance.

Other information

Product information is subject to change without prior notice. The user manual will be updated regularly. Please contact customer service for the latest version.

Interface Diagram

- ①Inverter screw fixing hole
- ②Ground wire connection hole (*The inverter housing must be connected to the ground wire)
- ③Connect the solar panel DC input
- ④Wi-Fi antenna
- ⑤LED status indicator
- ⑥Connect the grid cable AC output



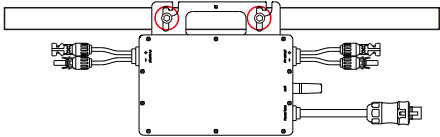
Technical Specifications

MODEL	GTMI-1000
DC Input	
Max Solar Panel Input Power	2*700W
MPPT Voltage Range (Module Open Circuit Voltage)	130~195V
Starting Voltage	>80V d.c.
Working Voltage Range	80~230V d.c.
Maximum Input Current	2*5.6A
Maximum Input Short Circuit Current	2*10A
Maximum Feedback Current Of The Array	0A
AC Output	
Maximum Output Power	1000W
Rated output current (A)	4.4A
Nominal Output Voltage Range	230V a.c. (e.g. Europe)
Nominal Frequency Range	50Hz/47.5~51.5Hz; 60Hz/57.5~61.5Hz
Power Factor	>0.99 default , 0.85 leading ... 0.85 lagging
Total harmonic distortion (@nominal power)	≤5%
Maximum Number Of Connections Per Branch	@230V 6 Pcs
Efficiency	
Peak Microinverter Efficiency	98.3%
CEC Weighted Efficiency	97.6%
Nominal MPPT Efficiency	99.8%
Night power consumption (mW)	0
Mechanical Data	
Ambient Temperature Range(°C)	-40 to +65°C
Dimensions(W×H×D)	230×200×42 mm
Weight	3.25Kg
Enclosure Rating	Outdoor-IP67
Cooling	Natural Convection- No Fans
Features	
Communication	Built-in Wi-Fi & Bluetooth
Monitoring	Smart Life
Compliance	VDE-AR-N 4105:2018, VDE 0124-100:2020, VFR 2019, IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1/-2, IEC/EN 61000-3-2/-3

Installation Steps

Step 1. Mount The Micro Inverter On The Rail

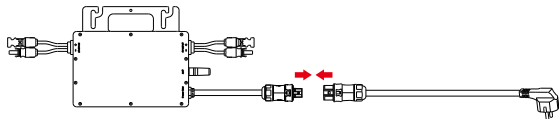
- A) Mark the approximate center of each panel on the frame.
- B) Secure the screws to the rails.
- C) Hang the inverter on the screws (as shown in the image to the right) and tighten the screws.



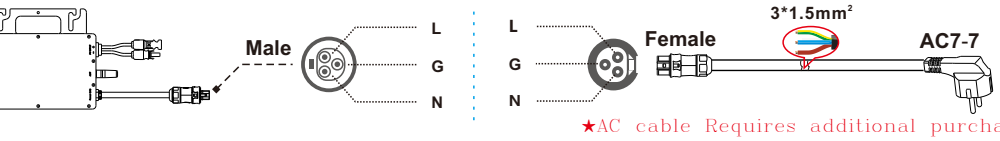
Step 2. Install cables

a)Connect the AC cable

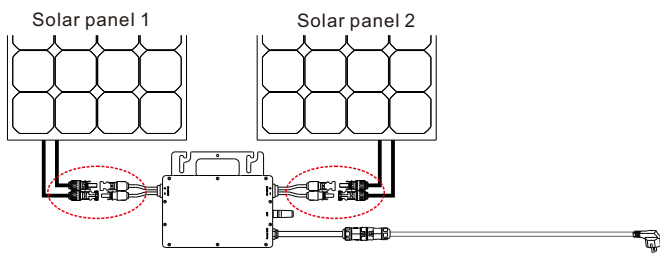
Insert the AC line terminal (female) into the inverter output terminal (male)



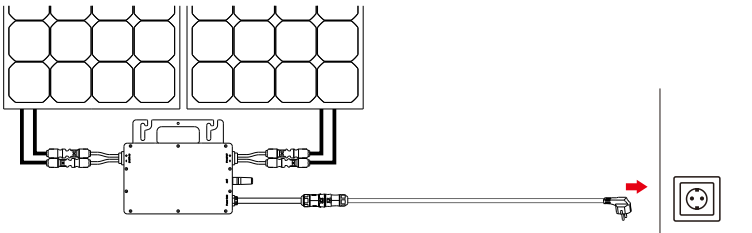
Overview of AC Output Terminals and AC Cables



b)Connecting the DC Cable



Step 3. Integrate into the grid



Monitoring System

APP Download



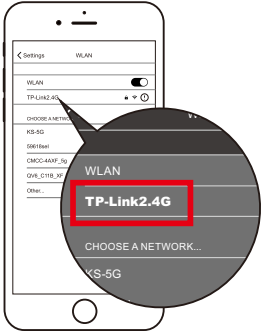
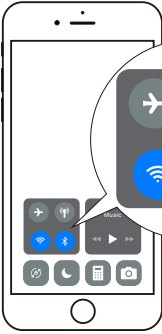
You can search for "Smart Life" in Apple Store or Google StoreAPP or scan the QR code below to download and install the application.



Scan the QR code and select the country
Download the "Smart Life" APP

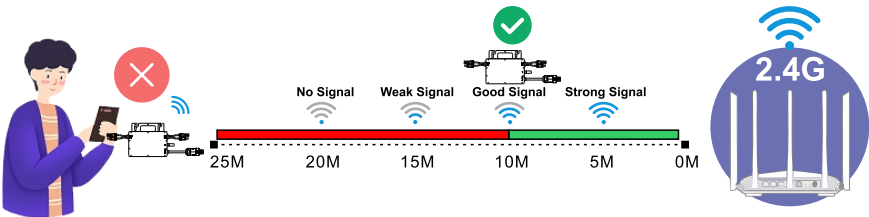
Mobile Phone Function Enabled

- 1. Please turn on the Bluetooth function. (Android system needs to turn on the positioning function);
- 2. Please use 2.4G Wi-Fi signal source;



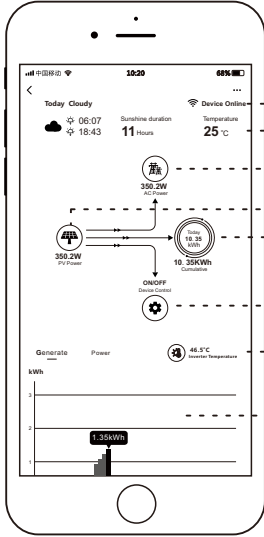
Wireless Network Environment Requirements

Please use your mobile phone next to the inverter to check whether the 2.4G Wi-Fi signal source is good. If the Wi-Fi signal is poor, please adjust the location of the wireless router or add a WiFi signal booster to ensure that the inverter can operate in a good WiFi coverage environment.



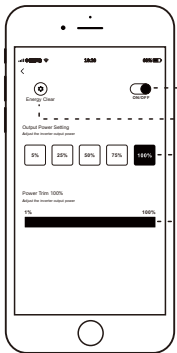
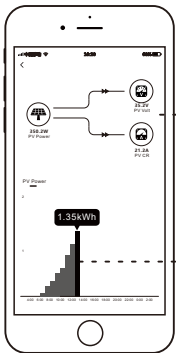
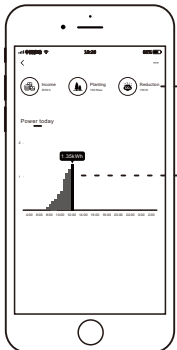
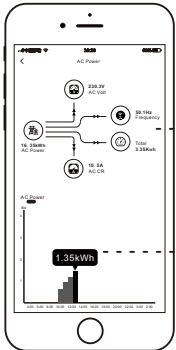
APP Function Introduction

Main Interface



- Device Network Status
- Weather Conditions
- AC Power (Click to View Detailed Function Display)
- PV Power (Click to View Detailed Function Display)
- Today (Click to View Detailed Function Display)
- Control (Click to View Detailed Function Display)
- Inverter Temperature
- Power Generation/Power Display

Interface and Function



Add the inverter to the "Smart Life" app (Bluetooth Mode)

- Step 1. Open the Smart Life, click "+" in the upper right corner and then click Add Device.
- Step 2. When the device appears on the search page, click "Add", as shown in Figure 2
- *If the device cannot be searched, please check whether the inverter is too far away from the mobile phone,

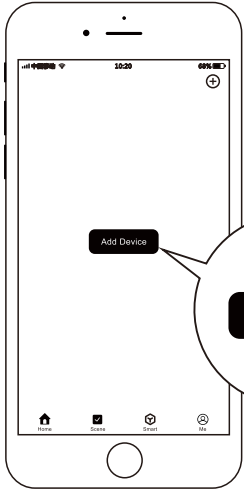


Figure 1

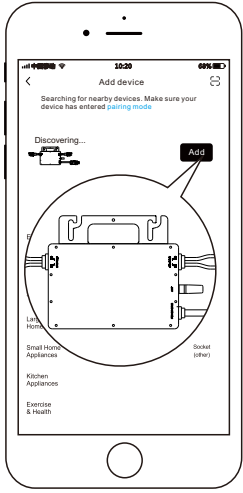


Figure 2

- Step 3. When Figure 3 appears, please select the 2.4G wireless network and enter the correct password and click Next.
- Step 4. When the inverter completes network distribution and displays the interface as shown in Figure 4, click "Done".

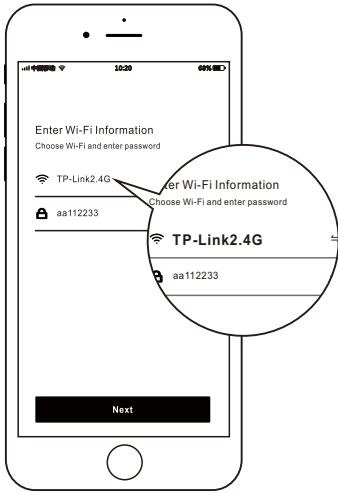


Figure 3

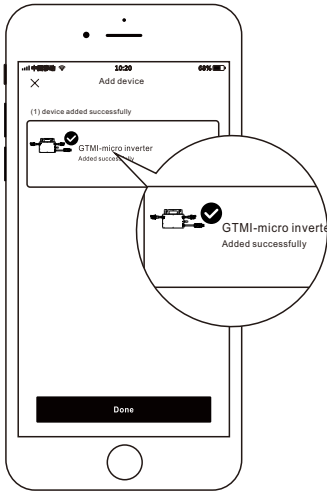


Figure 4

230V three-phase connection diagram

*Multiple connections require the use of handshake cables. Please contact sales for details.

