

SMART GRID INVERTER GTB-1200 Manual

Parameter Table

Model	GTB-1200	
Maximum input power	1200Watt	
Peak power tracking voltage	22-50V	
Min / max starting voltage	22-55V	
Maximum DC short-circuit	60A	
Maximum input operating current	54.5A	
Output Data	@120V	@230V
Peak power output	1200Watt	1200Watt
Rated output power	1200Watt	1200Watt
Rated output current	10A	5.2A
Rated voltage range	80-160VAC	180-260VAC
Rated frequency range	48-51/58-61Hz	48-51/58-61Hz
Power Factor	>99%	>99%
Max unit per branch circuit	3pcs (Single-phase)	5pcs (Single-phase)
Output Efficiency	@120V	@230V
Static MPPT efficiency	99.5%	99.5%
Maximum output efficiency	95%	95%
Night time power consumption	<1W	<1W
THD	<5%	<5%
Exterior & Feature		
Ambient temperature range	-40°C to +60°C	
Dimensions (L × W × H)	365mm×300mm×40mm	
Weight	2.81kg	
Waterproof rating	IP65	
Cooling	Self-cooling	
Communication Mode	WiFi mode	
Power transmission mode	Reverse transfer, load priority	
Monitoring System	Mobile APP, PC browser	
Electromagnetic Compatibility	EN50081.part1 EN50082.Party1	
Grid disturbance	EN61000-3-2 Safety EN62109	
Grid detection	DIN VDE 0126	
Certificate	CE, BIS	

Notes:

- ★Please connect the inverter following the operation instruction show above. If have any question please contact with relative persons.
- ★Non-professionals do not disassemble. Only qualified personnel may repair this product.
- ★Please install inverter in the low humidity and well-ventilated place to avoid the inverter over-heating and clear around the inflammable and explosive materials.
- ★When using this product, avoid children touching, playing, to avoid electric shock.
- ★Connected solar panels, battery or wind generators DC input DC power supply cable.

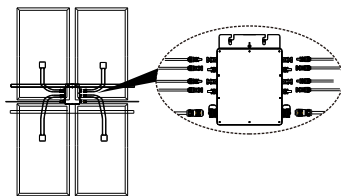
Accessories for product:

1. One warranty card;
2. One user manual;
3. One certificate of quality;
4. 1 pouch of screw for micro inverter installation;
5. One AC Cable;

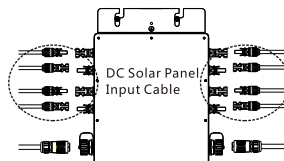
LED Display

1. Red light 3 second---Red LED light 3 second while device starts, then in working condition;
 2. Green flash fast---MPPT searching;
 3. Green flash slow---MPPT + searching;
 4. Red flash slow---MPPT - searching;
 5. Green lights on 3s and off 0.5s---MPPT locked;
 6. Red light steady---a. Islanding protection; b. Over-temperature protection; c. Over / low AC voltage protection; d. Over / low DC voltage protection; e. Fault
- Remarks:
LED flashing in the process of being working condition: inverters connected to AC & DC sides→ Red LED light 3 second→Green LED flash fast(MPPT searching)→Green LED flash slow(MPPT + searching) / Red LED flash slow (MPPT - searching) / reen LED lights on 3s and off 0.5s (MPPT locked) .

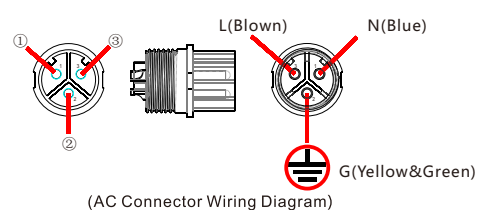
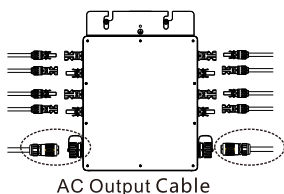
Step1 Installation for fixed the inverter on the PV holder with the screws attached is as following:



Step2 Connect the DC terminal of the PV to the inverter, positive to positive, negative to negative. Show below:



Step3 Open the waterproof cap on AC output side of the micro inverter, then plug to AC power line. Show below:

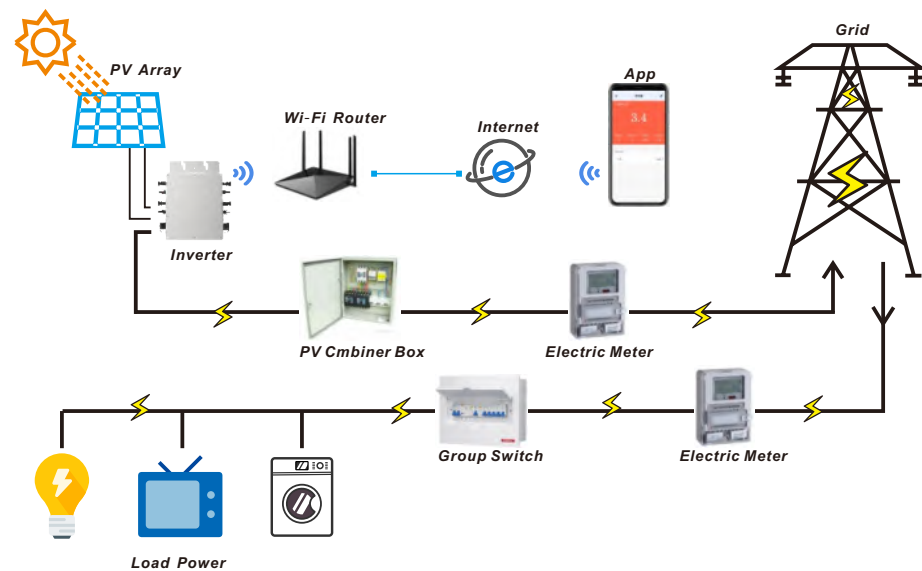


Step4 Plug the AC output line to main AC cable;

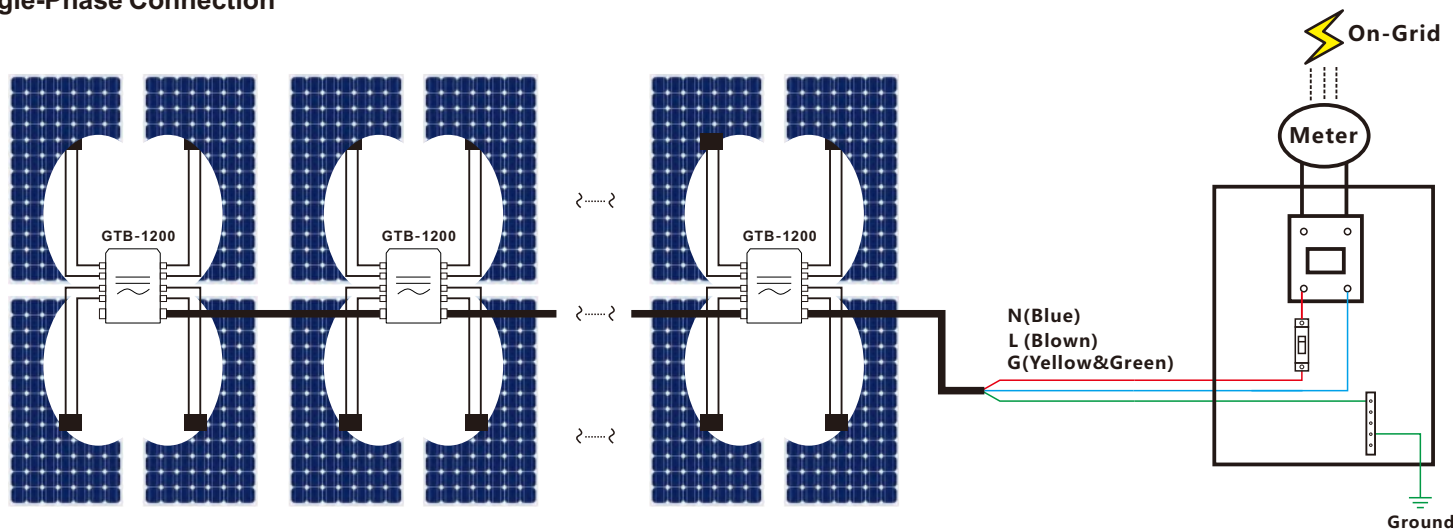
Step5 Repeat the first step to the third step to complete the installation of micro inverters;

Step6 Finally, please connect the AC main cable to the utility grid.

Structure of Solar power system



Single-Phase Connection



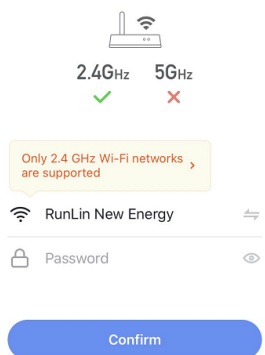
PV Monitoring System Operating Instructions

1. Download 'smart home' or direct scan code to the right qr code and install the monitoring system app(the multi-language language of the ios system);
2. Click and create the new user to register the account;
3. Please enter the password and confirm the password when you enter the password in the family.
4. After entering the wi-fi password, the inverter will remain in the normal working green light state, and the system will make a paired connection (as shown in figure 5 and 6).



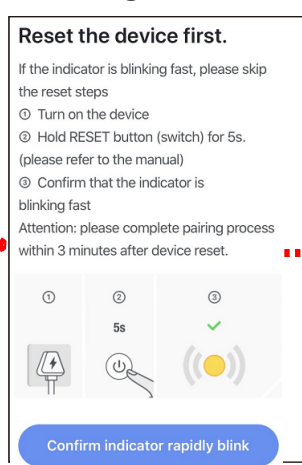
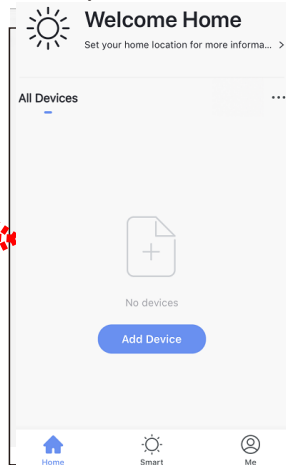
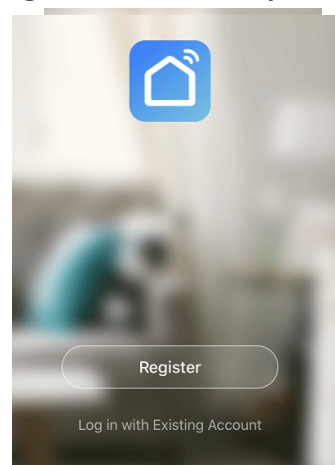
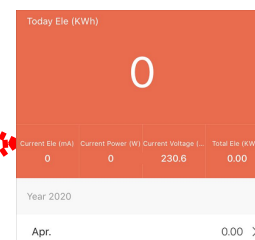
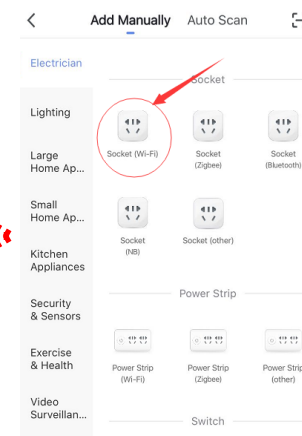
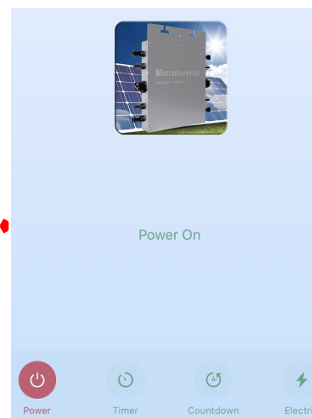
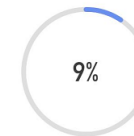
Before installation, switch on AC power for APP monitoring and debugging.

Enter Wi-Fi Password



Connecting...

Place your router, mobile phone, and device as close as possible



(1)

(2)

(3)

(4)

(5)

(6)

(7)

(8)