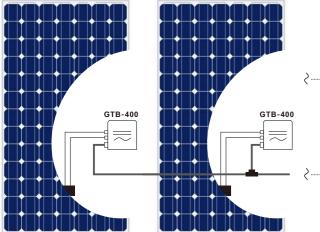
# SMART GRID INVERTER GTB-400 Manual

### Parameter Table

Model	GTB-400	
Maximum input power	400Watt	
Peak power tracking voltage	22-50V	
Min / max starting voltage	22-55V	
Maximum DC short-circuit	20A	
Maximum input operating current	13A	
Output Data	@120V	@230V
Peak power output	400Watt	400Watt
Rated output power	400Watt	400Watt
Rated output current	3.3A	1.7A
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	6pcs ( Single-phase )	12pcs ( Single-phase
Output Eifficiency	@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)	253mm×200mm×40mm	
Weight	1.5kg	
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	

### **Single-Phase Connection**

the family.



**PV Monitoring System Operating Instructions** 

monitoring system app(the multi-language language of the ios system);

2. Click and create the new user to register the account;

1. Download 'smart home' or direct scan code to the right gr code and install the

3.Please enter the password and confirm the password when you enter the password in

# GTB-400

Notes:

★Please connect the inverter following the operation

ventilated place to avoid the inverter over-heating, and clear around the inflammable and explosive materials.

★When using this product, avoid children touching.

When using this product, avoid children touching, playing, to avoid electric shock.
Connected solar panels, battery or wind generators

4.1 pouch of screw for micro inverter installation;

1.Red light 3 second----Red LED light 3 second while device starts , then in working condition;

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

d. Over / low DC voltage protection; e.Fault

LED flashing in the process of being working

condition:inverters connected to AC & DC sides  $\rightarrow$ Red LED light 3 second  $\rightarrow$  Green LED flash fast(MPPT

/ Red LED flash slow (MPPT - searching) / reen LED lights on 3s and off 0.5s (MPPT locked)

searching)→Green LED flash slow(MPPT + searching)

2.Green flash fast---MPPT searching;

b.Over-temperature protection; c.Over / low AC voltage protection;

DC input DC power supply cab Accessories for product:

1.One warranty card 2 One user manual

5.One AC Cable; LED Display

Remarks:

condition

4. After entering the wi-fi password, the inverter will remain in the normal working green "Before installation, switch on AC power for APP mon

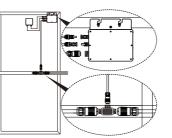
3.One certificate of quality;

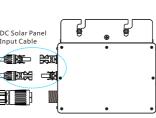
instruction show above. If have any question please contact with relative persons.

### Step1 Installation for fixed the inverter on the PV holder with the screws attached is as following \*Non-professionals do not disassemble.Only qualified personnel may repair this product. \*Please install inverter in the low humidity and well-

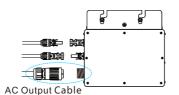
Step2 Connect the two DC terminal of the PV to the inverter, positive to positive, negative to negative. Show below

## Structure of Solar power system



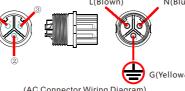


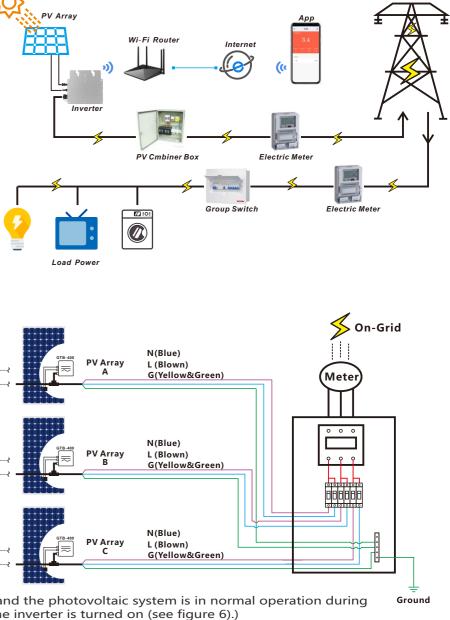
Step3 Open the waterproof cap on AC output side of the micro inverter, then plug to AC power line. Show below:



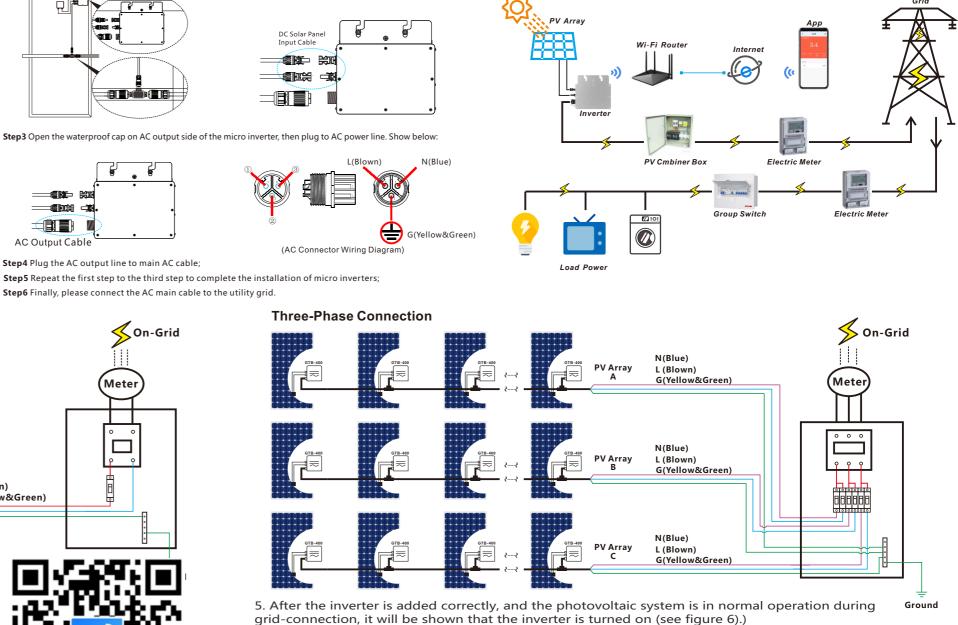
Step4 Plug the AC output line to main AC cable;

< On-Grid





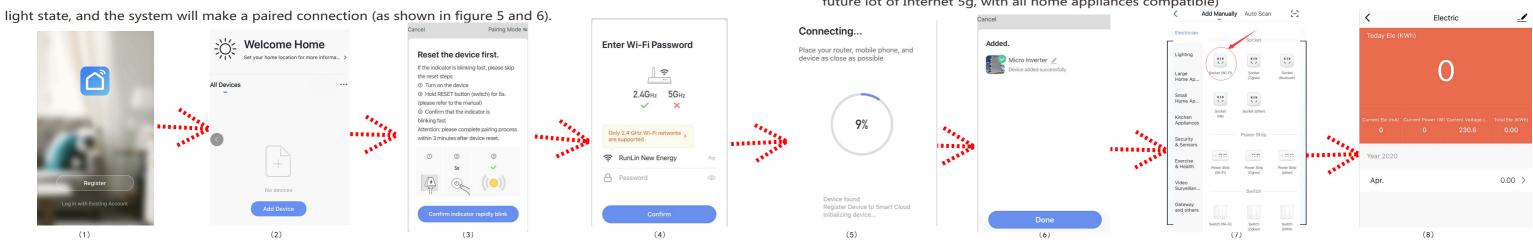
Step6 Finally, please connect the AC main cable to the utility grid.



5. After the inverter is added correctly, and the photovoltaic system is in normal operation during grid-connection, it will be shown that the inverter is turned on (see figure 6).) 6. If the inverter is not running in the current network, it will be shown as the inverter is closed (see figure 7).

7, click each inverter, will be able to view the inverter data statistics, more functions, please click in the APP to check

Note: install multiple inverter app monitoring operation procedure. (the system is designed for the future lot of Internet 5g, with all home appliances compatible)



# N(Blue) L (Blown) G(Yellow&Green)

