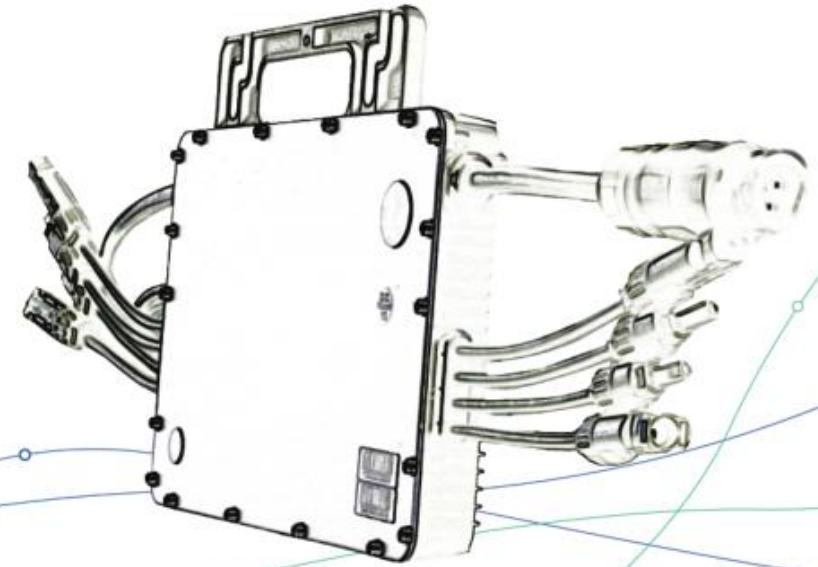


Hoymiles Microinverter System Installation Training

Presented by: Wojciech Kwasniak
E-mail: wojciech.kw@hoymiles.com



MICROINVERTER
SOLAR SOLUTIONS

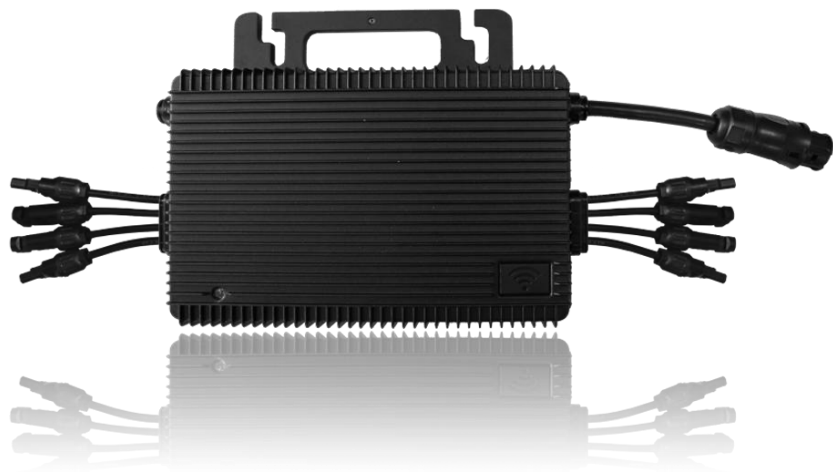
Premise

Prepare for the installation of microinverter system

The process of microinverter system installation

Installation Pictures

Popular Products



MI-1000/1200



MI-500/600/700



MI-250/300

Equipments

Panel



Rail



Microinverter



**Data Transfer
Unit / DTU**



**AC Female
Connector**



AC End Cap



AC End Cable

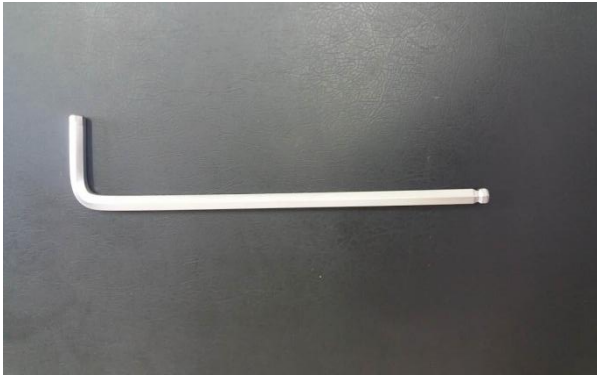


Distribution Box



Required Tools for Installation

Multi-function wrench



Hexagon



Double-headed wrench(13-15)



Adjustable wrench



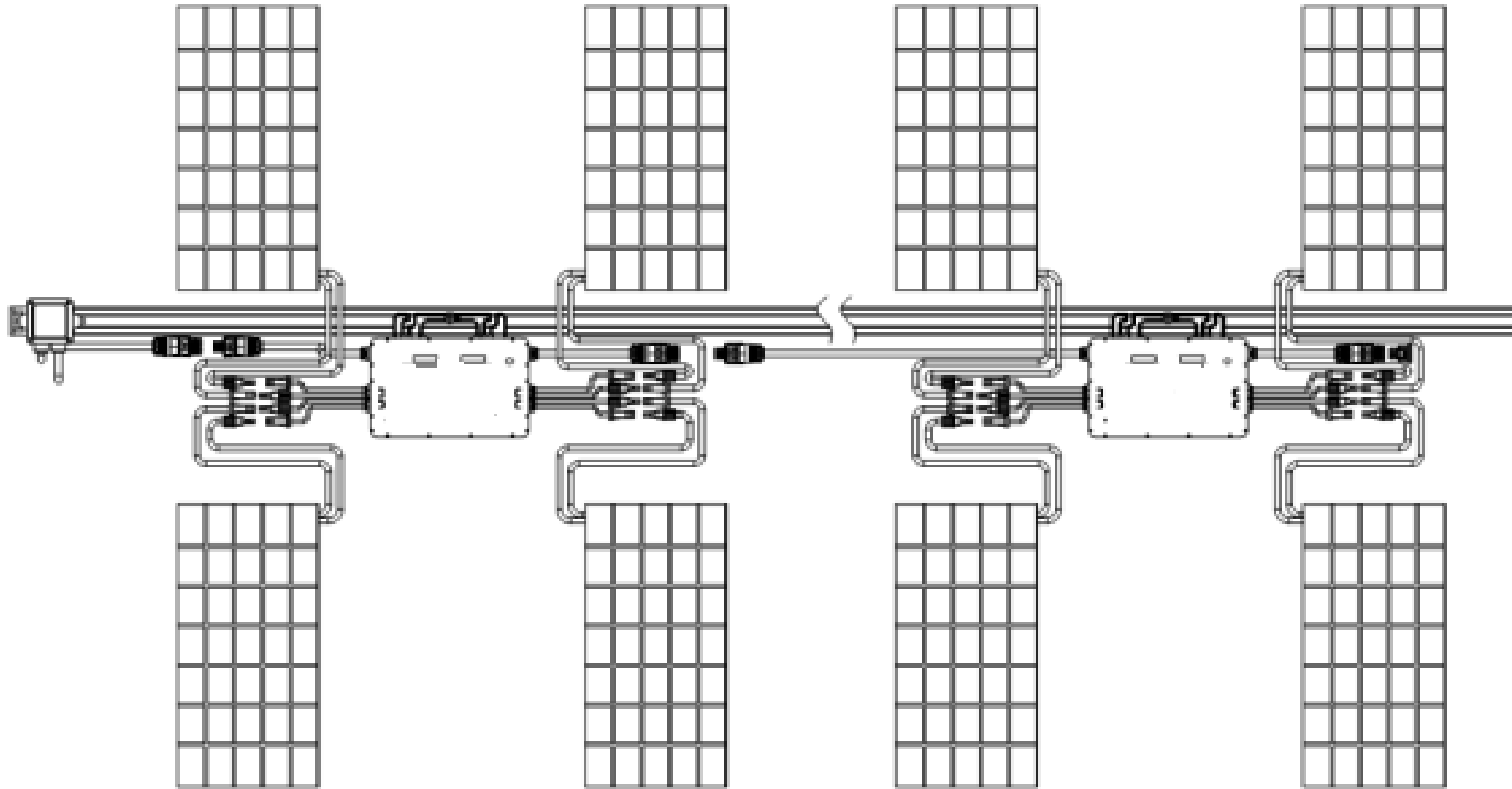
Screwdriver



Multimeter

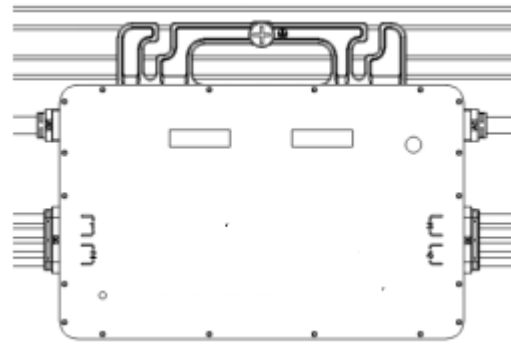


Microinverter Installation steps



1 Install Microinverter

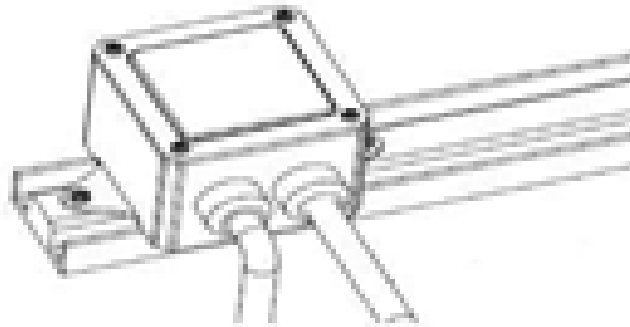
- Mark the approximate center of each panel on the frame.
- Install the microinverter shown as below. The silver cover side should be up



Silver cover side up.

2 Install AC Junction Box

- a. Install an AC junction box at the suitable location on the racking.
- b. Provide an AC connection from the AC junction box back to the electricity network connection using equipment and practices as required by local jurisdictions.

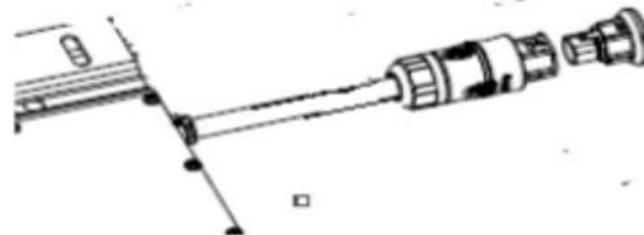


3 Connect AC Cables of Microinverter

- a. Plug the AC connector of the first microinverter into the connector of the next microinverter, and so forth, to form a continuous AC branch circuit

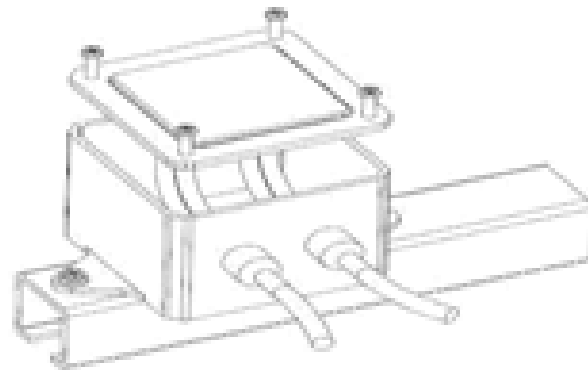


- a. Install the AC End Cap on the open AC connector of the last microinverter in the AC branch circuit



4 Connect AC End Cable

- a. Connect the AC End Cable connector to the adjacent microinverter connector.



- b. Connect AC End Cable to the junction box and wire with the cable to the electricity network. Close the junction box after the wiring is complete.

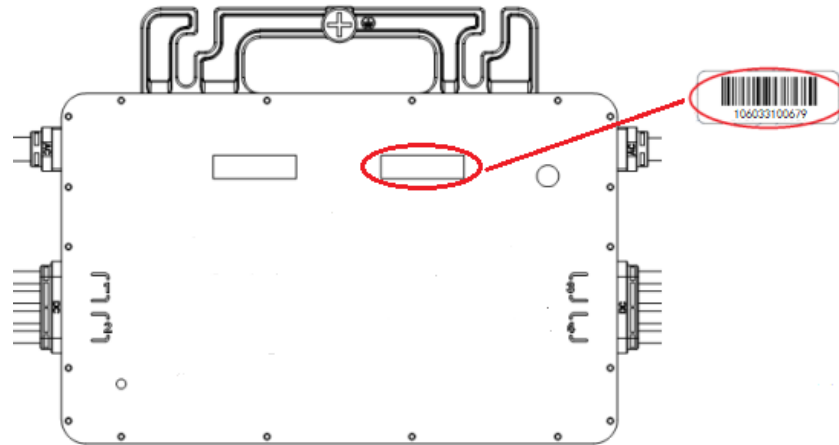
Note: Brown Wire: L

Blue Wire: N

Yellow/Green Wire: Ground

5 Create an Installation Map

a. Peel the removable serial number label from each microinverter. The position of the label is shown as below.



Note: the DC inputs of MI-500 are identified by A and B. The left input is A and the right one is B, shown as above.

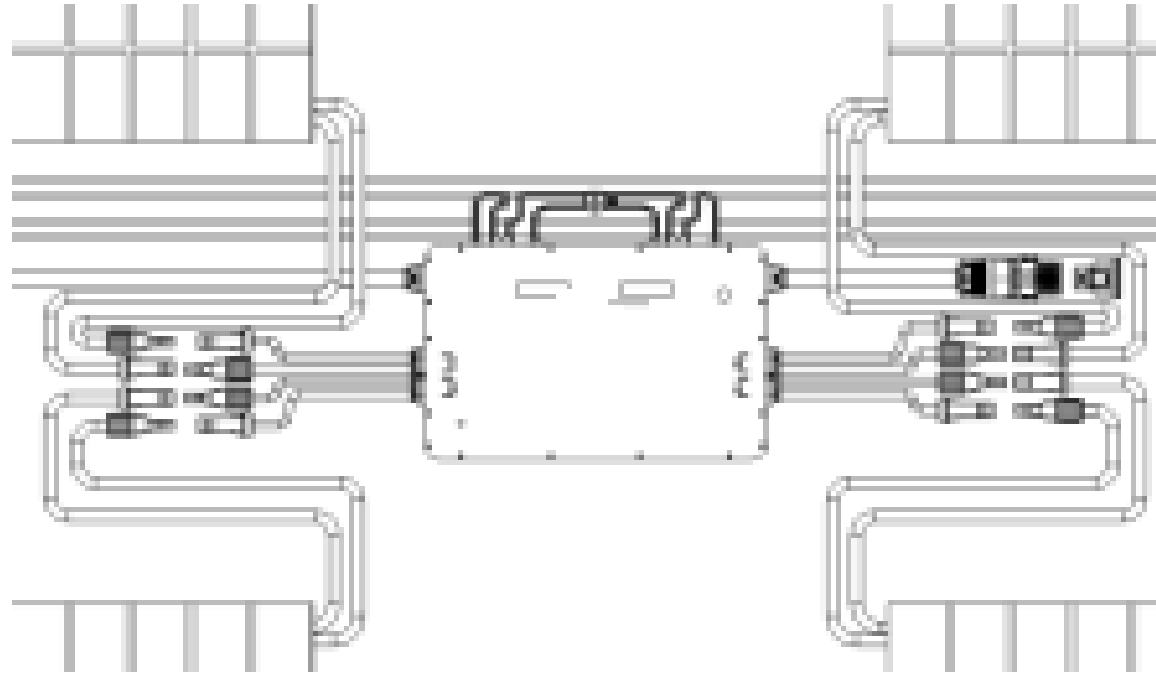
b. Affix the serial number label to the respective location on the installation map.

N S E W (circle one) 		Panel Group: Azimuth: Tilt: Sheet ___ of ___		Customer Information:				DTU Serial Number:							
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	
A	1	3													
B	2	4													
C															
D															

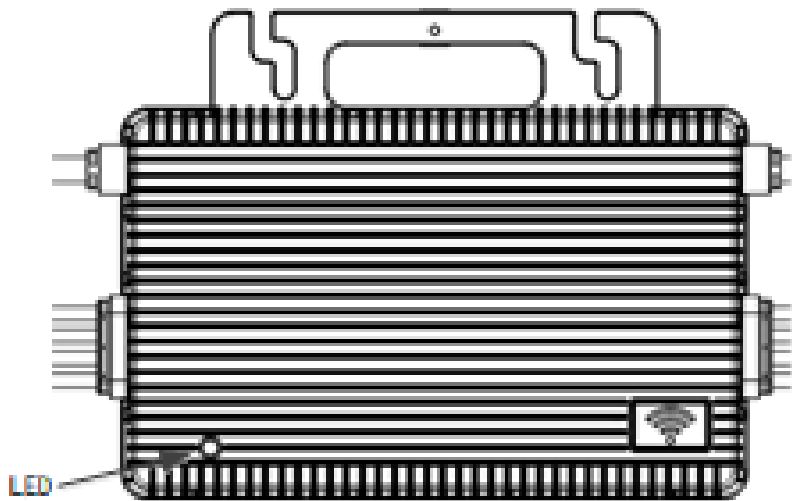
Note: the serial number label of MI-500 should be affixed between two blanks and mark A and B to identify the two connected PV panels.

6 Connect PV Modules

- a. Mount the PV modules above the microinverters
- b. Connect the DC cables of the modules to the DC input side of the microinverter.



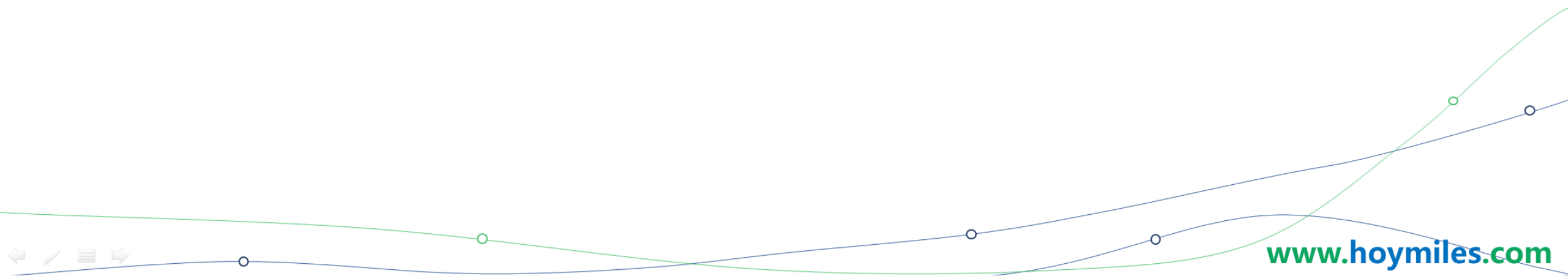
c. Check the LED on the side of the microinverter. The LED flashes six times at start up. All green flashes indicate normal start up.



LED	Indicates
Fast Flashing Green (2s interval)	The operation is normal and there is communication with DTU
Slow Flashing Green (4s interval)	The operation is normal but there is no communication with DTU
Flashing Red (1s interval)	The power grid is abnormal
Solid Red	GFDI fault

7 Energize the System

- a. If applicable, turn on the AC disconnect or circuit breaker for the branch circuit.
- b. Turn on the main utility-grid AC circuit breaker. Your system will start producing power after about two-minute wait time.



8 System Monitoring Set Up

- Refer to the DTU User Manual or the DTU Quick Install Guide to install the DTU and set up system monitoring.

Distribution box installation



1. In principle, the distribution box shall be close to the meter of the user. The installation position shall be safe, firm and easy to operate. (If local power sector has requirements, do as they requested);
2. The distribution box should be installed in the place to avoid rain and exposure, the minimum height can not be less than 1600mm.

Grounding Pile



DTU-MI-GPRS

Client Set:

Enable Client ☒

Server address:

Server ip:

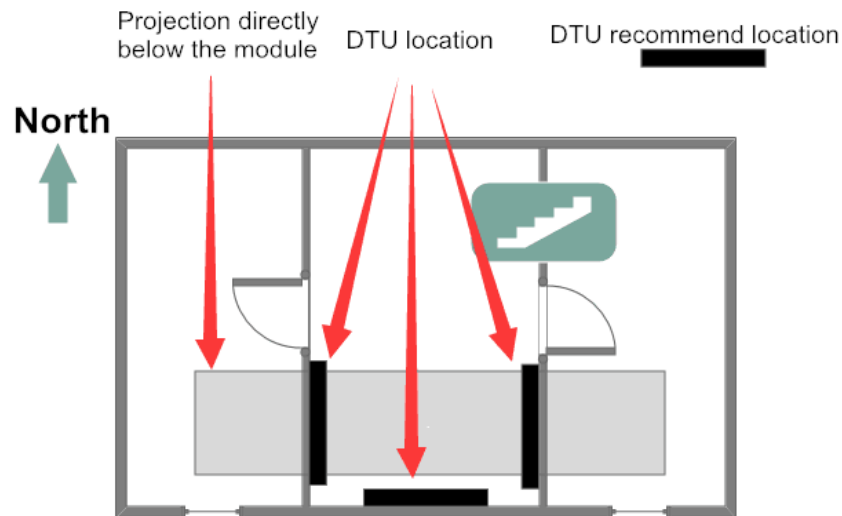
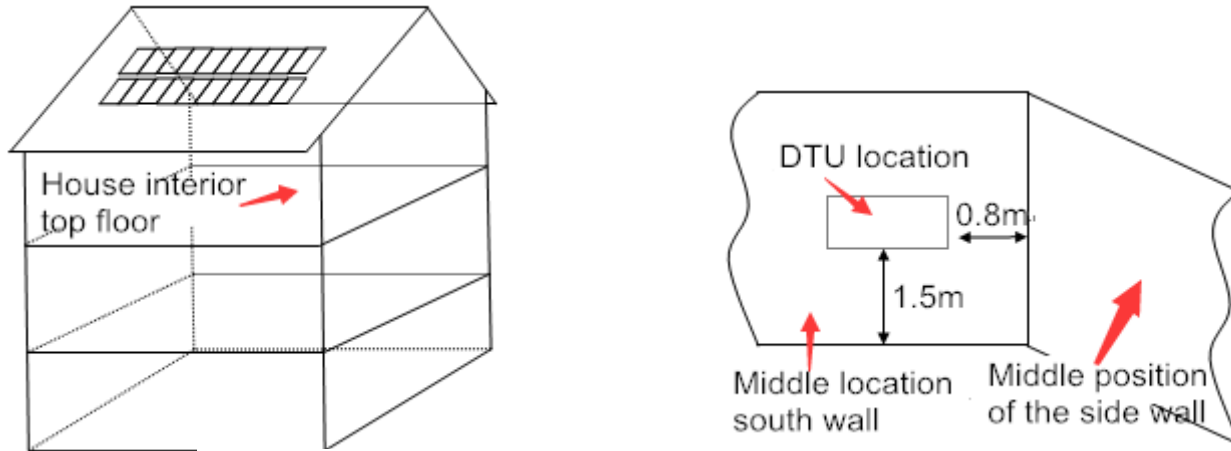
Dest Port: (8000-65535)

GPRS/ROUTER ☒ Select gprs/router to connect server

DTU Setting Platform

DTU-GPRS-MI can connect 99 pieces microinverters' ID;

DTU installation



1. Installation environment

- (1) Dry non-corrosive liquids and heat objects;
- (2) With 220V power supply;
- (3) LAN network support (GPRS Internet card provides network version except).

2. Installation location

- (1) Installed in the router near the LAN network connection (GPRS Internet card provides network version except);
- (2) Installed in the loft at the top of the house;
- (3) Installed near the microinverter position.

DTU Internet Connection Status

Confirm whether the installation is successful

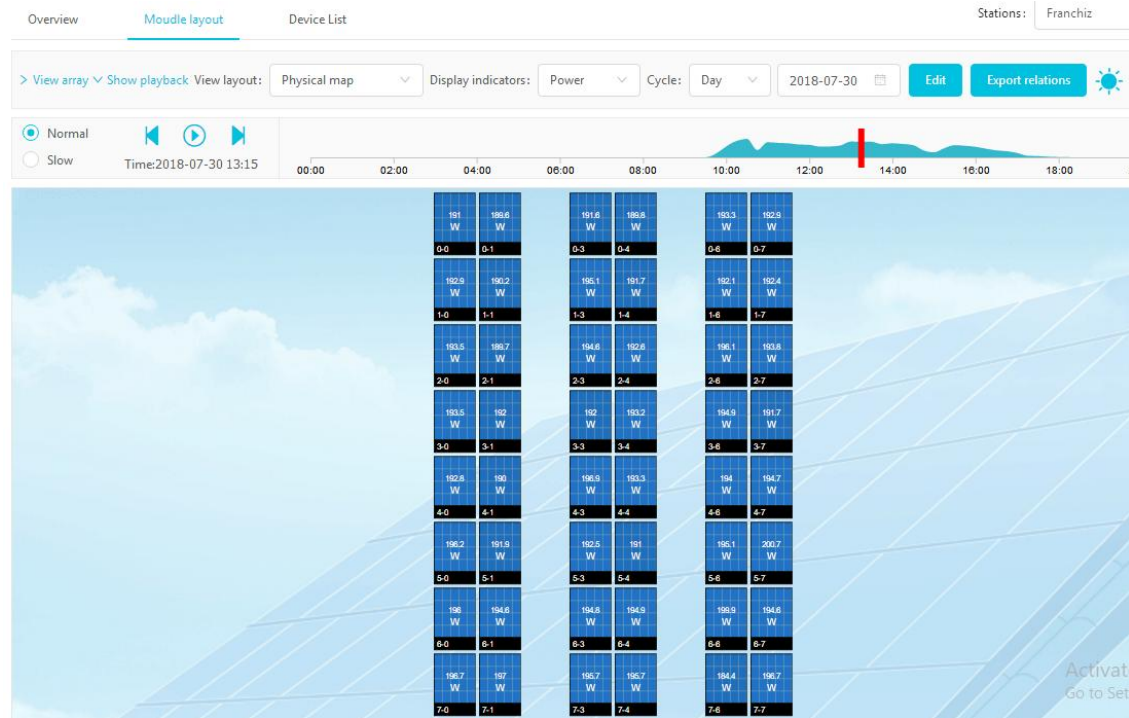
(1) The network power, confirm LCD NC / LC change to YC. YC said that the server has been connected successfully.

YC

YC 10:27:55 --XXXX

IP: 192.168.1.XXX

Module monitoring type



Computer, mobile real-time monitoring, big data management.

Achieve module-level monitoring, real-time control of each module's power generation status, quickly locate the location of the fault, the remote upgrade program to adapt to the situation of local power grid

Installation Pictures



Installation Pictures





— END —
THANK YOU

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