

## Installing the MI-500 Microinverter System

To monitor solar production you must install a DTU. Refer to the DTU User Manual or DTU Quick Install Guide

### Parts and Tools required

In addition to the microinverters, PV modules, mounting rail, and associated hardware, you will need the following.

#### Hoymiles Equipment

Hoymiles DTU (optional, for monitoring)

AC End Cable

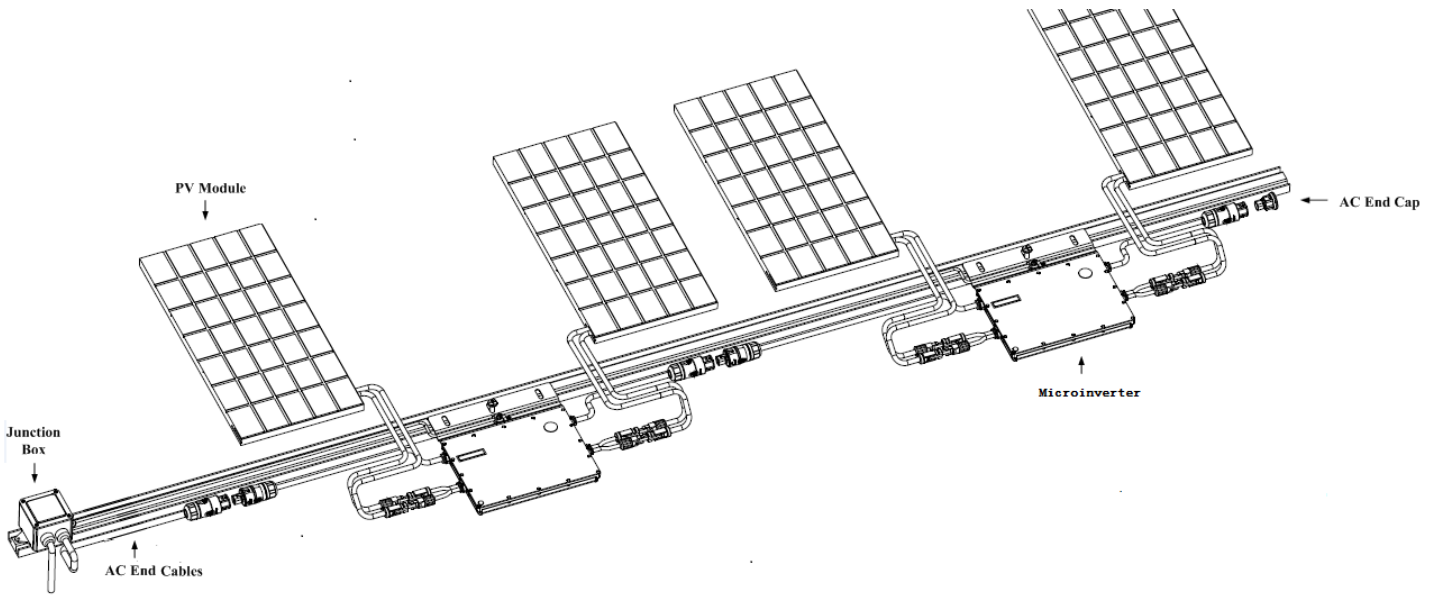
AC End Cap

#### Other Items

Outdoor rated, weather proof AC junction box

Torque wrench, sockets, wrenches for mounting hardware

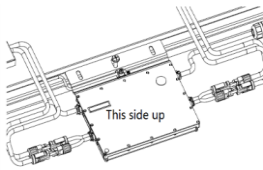
Phillips screw driver



### Installation Steps

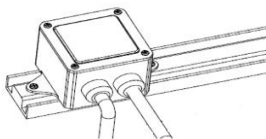
#### ① Install Microinverter

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



#### ② Install AC Junction Box

- a. Install an AC junction box at the suitable location on the racking.



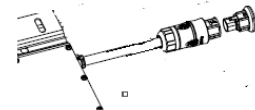
- b. Provide an AC connection from the AC junction box back to the electricity network connection using equipment and practices as required by local jurisdictions.

#### 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

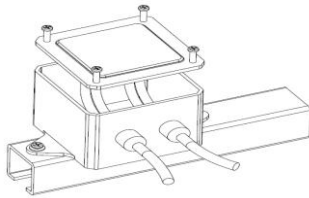


- b. Install the AC End Cap on the open AC connector of the last microinverter in the AC branch circuit



#### 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

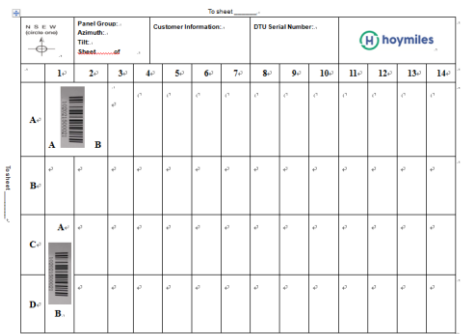
## ⑤ Create an Installation Map

**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.

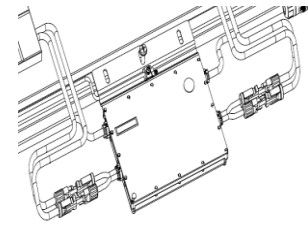


**Note:** the serial number label of MI-500 should be affixed between two blanks and mark A and B to identify the two connected PV panels.

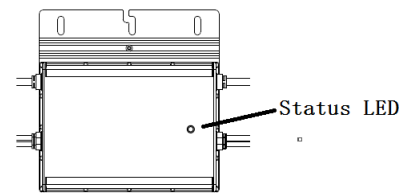
## ⑥ Connect PV Modules

**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 a 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.

Product information is subject to change without notice. (Please download reference manuals at [www.hoymiles.com](http://www.hoymiles.com)).