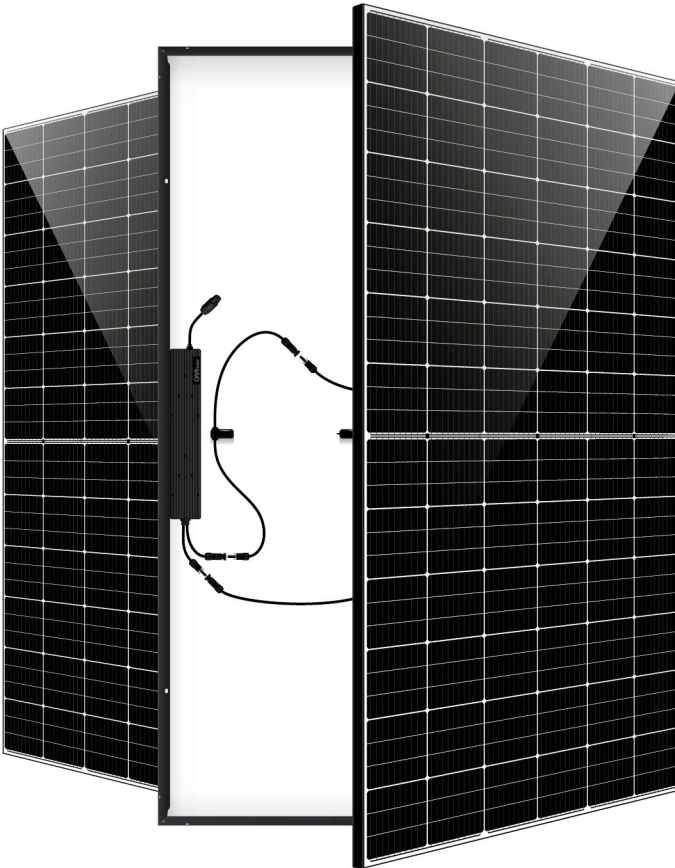


DAHSolar

un Integrated
PV System
SolarUnit

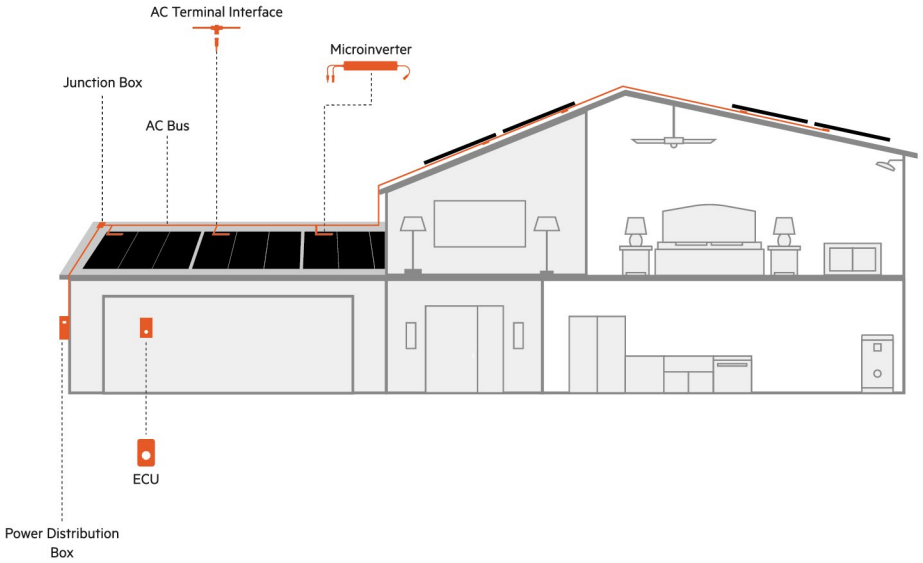
SolarUnit—The World's First Integrated PV System

Installation Instructions **(DAH-SU1K5T-1500W)**



System Layout Diagram

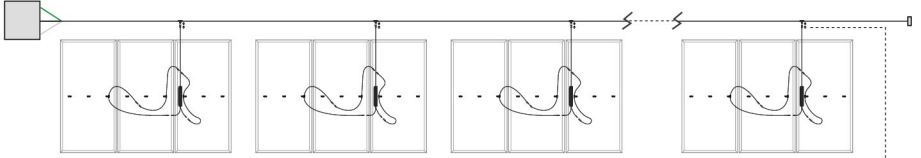
Notes: The ECU is connected to the same phase as the AC line



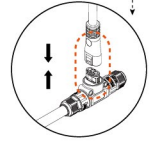
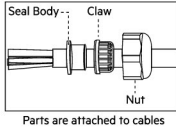
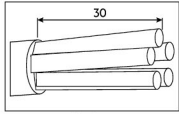
Original Equipment List

No.	Items	Pictures	Note
1	Modules		Contained
2	1500W Microinverter		Contained
3	ECU		Contained
4	AC T-Bus (3C/10AWG) spacing cable length 3.6m		Optional number of connectors
5	AC Bus T End Cap		Contained
6	Screws		Contained
7	Quick Installation Manual		Contained
8	AC cable (3C/10AWG) optional length		Contained

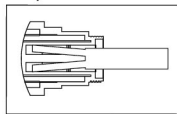
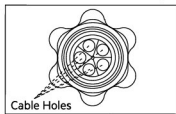
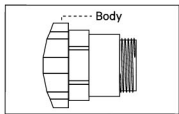
AC Connection Diagram



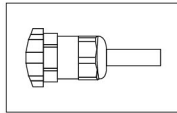
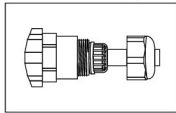
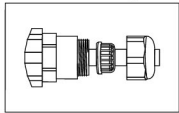
Installation Diagram of Cable Sealing



All the cables are inserted into the cable holes, and only one cable is inserted into one cable hole



Put the seal body and claw into the main groove, and then screw nut into the main body, the torque is $2.5 \pm 0.05 \text{ N}\cdot\text{m}$

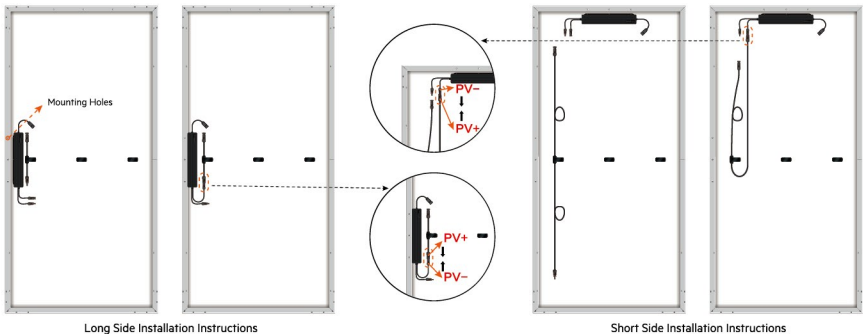


Notes: Arrange the AC bus according to the actual installation environment, a single AC bus can be connected to a maximum of 5 microinverters.

- The reserved cable length of the AC T-bus is 3.6m, and the length of the AC bus can also be optional according to the actual distance between the microinverters.
- Determine the number of microinverters you plan to install on each AC branch cable and prepare the corresponding AC bus.
- The AC T-bus can be cut according to needs, and the cut AC cables are fastened and protected with cable sealing heads.

Step 1 Installation of Microinverter

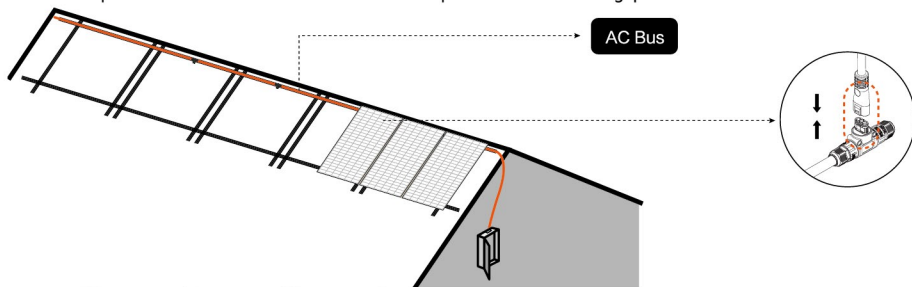
- Install the microinverter on the frame of the photovoltaic module, align with the mounting holes, and fix it with M3 screws.
- Connect the DC MC4 Terminal of the photovoltaic module to the DC MC4 Terminal of the microinverter.



* Before installation, please check if the microinverter is installed firmly (the microinverter is installed on the frame of the module by default, if it is not installed, please follow "step 1" to install)

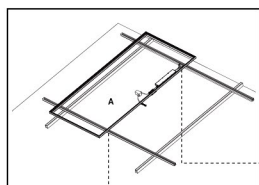
Step 2 Layout AC Bus

- Pre-arrange the AC bus at a suitable position in the SolarUnit system
- The T-shape connector should be reserved as close as possible to the middle gap between the two modules

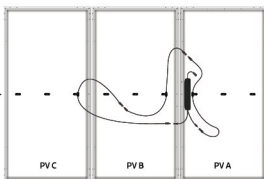
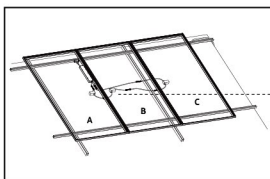
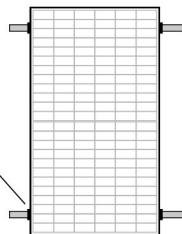
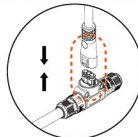


Step 3 Install PV Modules

Installation and connection of the modules (repeat the modules installation according to the diagram, the diagrams are showing the front of the module)

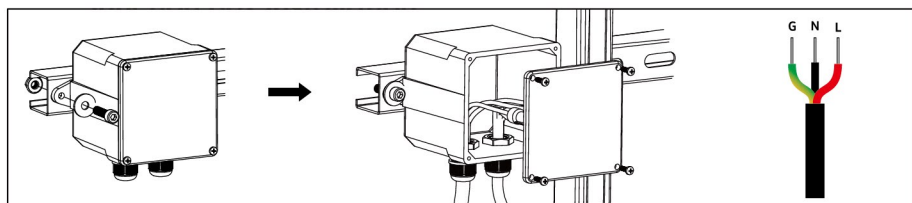


- Place module A (with microinverter) on the corresponding position of the AC Terminal interface on the bracket.
- Install the pressing block to fix it (Add EPDM anti-scratch mat to the pressing block).
- Connect the AC output connector of the microinverter to the T-bus connector.



- Place module B on the bracket and align it up and down with module A, leaving a gap of about 20mm in the middle. The cables of module A and module B are on the same side.
- Place module C on the right side of module B, keep it aligned, and leave a gap between modules. After the MC4 Terminal is connected, put the middle pressing block between Module A and B. The same middle pressing block is placed between Module B and C. Placing the side pressing block on the side of Module C.

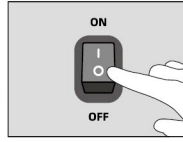
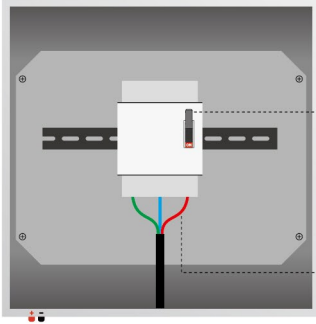
Step 4 Junction Box Installation



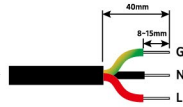
- The junction box and cables to the power distribution box need to be prepared by the user and the wiring must be completed
- First install the junction box, then strip the end of the AC cable and connect it to the junction box. Finally connect the junction box cable to the distribution box

AC Bus Connection

Notes: Turn on the circuit breaker, the microinverter enters the start state



- Before wiring, ensure that the circuit breaker of the household distribution box is disconnected

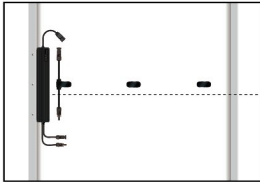


- Arrange the AC Bus



WARNING

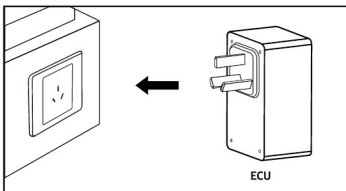
1. Please make sure that the access circuit breaker in the distribution box is disconnected, and wear safety protection for wiring operations, beware of electric shock!
2. Corresponding cable color and type: L cable-red; N cable-black; G cable-yellow green; cables' color varies according to different regions, and check the microinverter installed cables before connecting to the AC bus to ensure they match.



Each SolarUnit has a detachable serial number label located on the microinverter casing, as shown in the picture: tear off the serial number label and paste it on the corresponding position of the system installation worksheet (as shown in the table below).

String Position:	Inclination Date:	Customer:			Installation:		↑
		1	2	3	4	5	6
A							
B							
C							
D							

Installing ECU



Plug the ECU into the socket

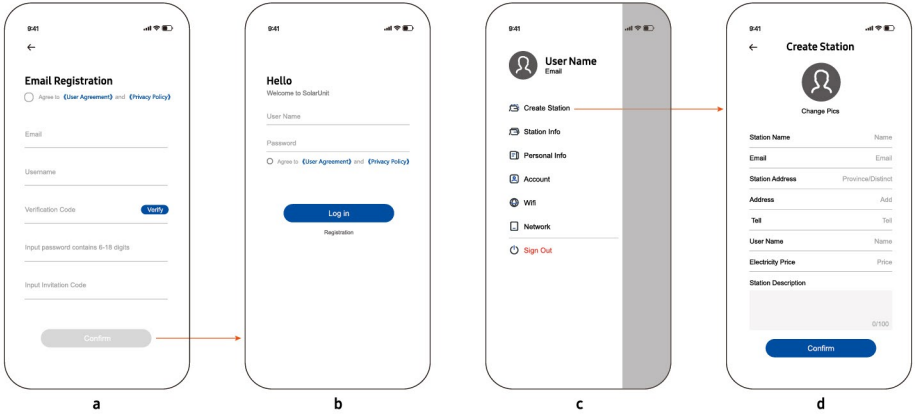
The power supply of the ECU and the power station must be guaranteed to be the same output line, and the place where it is used needs to be connected to a wireless network for energy management and data monitoring.

Site Construction Manual



01 / APP Scan and download application

Users & Create



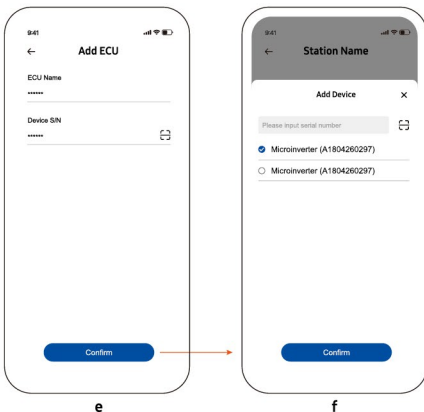
02/ For new users, click the registration button in the lower right corner of the picture above, and return to the home page to log in after registration (Picture a).

03 / Enter the login interface and enter the account password (Picture b).

04 / Successful login, enter the home page, click (...) in the upper right corner, and click "Create Power Station" (Picture c).

05 / Follow the prompts, enter the basic information of the power station in turn, and click "Confirm" (Picture d).

Site Construction Manual



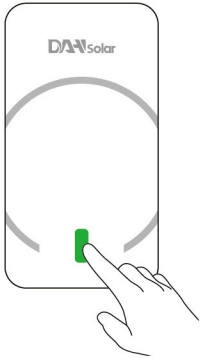
06 / Jump to the ECU adding page, click "Add ECU" in the upper right corner, enter the name and scan the code to enter the SN number (Picture e) (when the system is unpacked).

07 / ECU added successfully, jump to the microinverter adding page, click "Add Microinverter" in the upper right corner (Picture f).

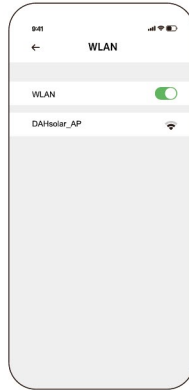
08 / According to the prompt, enter the SN of the microinverter by scanning the code (when the system is unpacked).

09 / After the equipment is added successfully, the newly added microinverter can be seen under the new power station.

Distribution Network

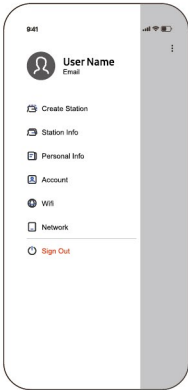


g

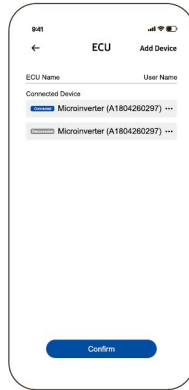


h

- 10 / Long press the LED light on the ECU until the light flashes red and green alternately (Picture g).
 11 / ECU hotspot: connect to the hotspot created by the ECU in the mobile phone settings, "DAHsolar_AP", no password required (Picture h).
 12 / Click (...) in the upper right corner of the home page. Then click "Configure Network" (Picture i).
 13 / Enter the name and password of the home wireless WIFI, click OK, and a pop-up window "OK", which means the distribution network is successful, return to the home page.



i



j

- 14 / Click "Create Complete", the new power station is successfully created (Picture j).

	Red light stays on or quick flashes	Green light stays on or quick flashes		
Microinverter	Fault or do not meet grid connection conditions	Normal grid-connected operation		
	Alternately flashing red and green	Flashing green light	Flashing blue light	Flashing red light
ECU	Waiting for network distribution	Configure the network and connect to the server is completed	Not connected to server	Emergency shutdown

* Be careful not to touch the button during operation, which may cause the microinverter to stop running. In this state, please press the touch button again to make the green light flash to resume operation.

System Installation Form

String: Position:	Inclination: Date:	Customer:	Installation:	↑
A				
B				
C				
D				



DAH Solar Co., Ltd.

Add: No.1 Yaoyuan Road, Luyang District, Hefei City, Anhui, China
 E-mail: sales@dahsolar.com www.dahsolarpv.com