VOLTACON®
ENERGY SYSTEMS



User Quick Installation Guide

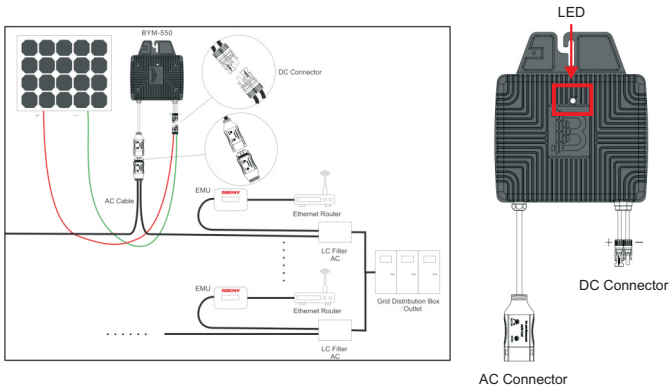
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VERSION : 20220927
For the latest version of specification, please refer to www.beny.com or contact to info@voltacon.com
We reserve the right to explain the terms of specification.

WWW.VOLTACONSOLAR.COM

Please Confirm Before Connecting the VOLTACON Microinverter

1. Whether the grid voltage at the common connection point conforms to the AC voltage level on the micro-inverter label.
2. Whether the electrical parameters of the PV modules meet the DC input range on the microinverter label.

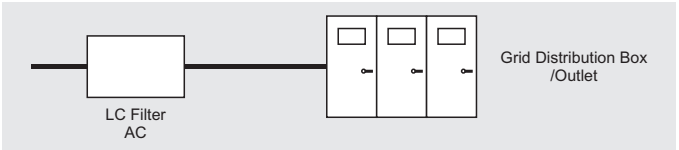


VMI550 Installation and Connection Diagram

Installation Steps

Step 1: Install the LCF Filter Used to Eliminate PLCC Communication Interference (Skip When There is No Monitoring Device)

Select a suitable AC cable to connect the LCF to the power distribution box or AC outlet, pay attention to the current carrying capacity of the AC cable, and must adapt to the total output current of all microinverters connected to the filter. For example, when there are 2 microinverters, the cable carrying capacity must be greater than 5A, and when there are 8 microinverters, the cable carrying capacity must be greater than 20A. A 10AWG cable is recommended.



Note: If the number of connected microinverters is more than 8, you need to connect another AC bus, and then add LCF filters, monitoring equipment EMU and other related accessories according to requirements.

Step 2: Install the Monitoring Device EMU (Skip If There is No Monitoring Device)

a. Connect L and N of EMU to LCF filter, and pay attention to the polarity of L and N.
NOTE: The connection must be on the side away from the distribution box or outlet.

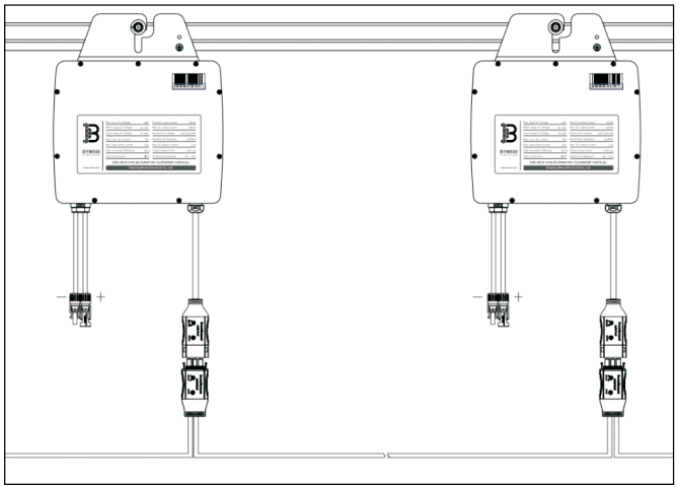
b. Connect the network cable (RJ45 cable) of the EMU to the LAN port of the router that can directly access the Internet.



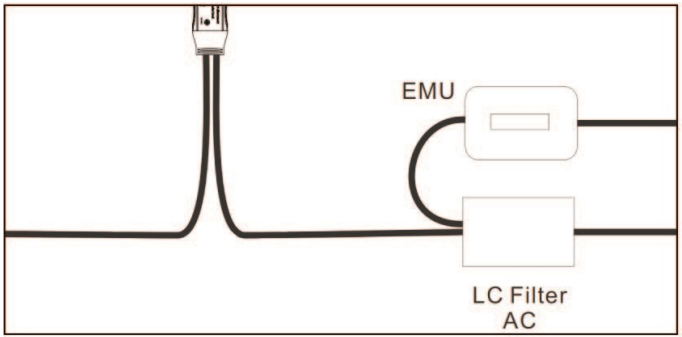
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Step 3: Install the AC Bus

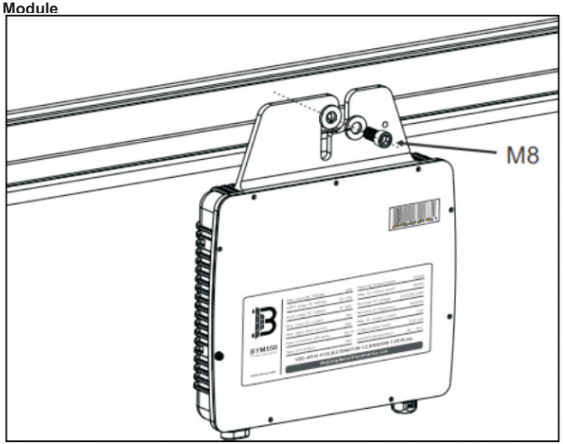
a. Pre-arrange the AC bus at a suitable location to connect the Microinverter.



b. When there is an LCF filter, connect one end of the AC bus to the same side of the filter as the EMU connection; when there is no LCF filter, the AC bus should be connected to the grid connection equipment such as a combiner box or outlet .
Pay attention to the wiring method of the AC bus, it should be one of the types 1/2/3/4
Type 1. Live (L) - Red; Neutral (N) - Black; Earth (PE) - Green.
Type 2. Live (L) - Red; Neutral (N) - Black; Earth (PE) - Blue.
Type 3. Live (L) - Brown; Neutral (N) - Blue; Earth (PE) - Yellow Green.
Type 4. Live (L) - Black; Neutral (N) - Blue; Earth (PE) - Yellow Green.

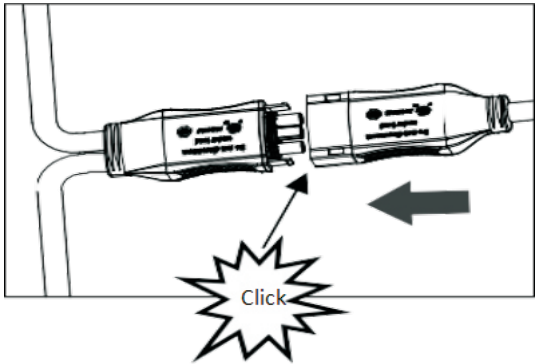


Step 4: Install the VOLTACON Microinverter on the Bracket or the Frame of the Solar Module

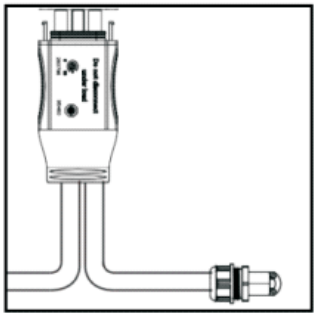


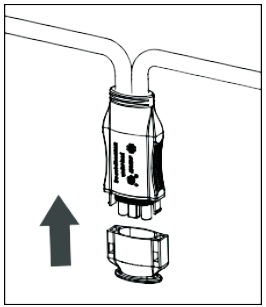
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Step 5: Tightly Connect the AC Port of the BENY Microinverter with the AC Bus Connector

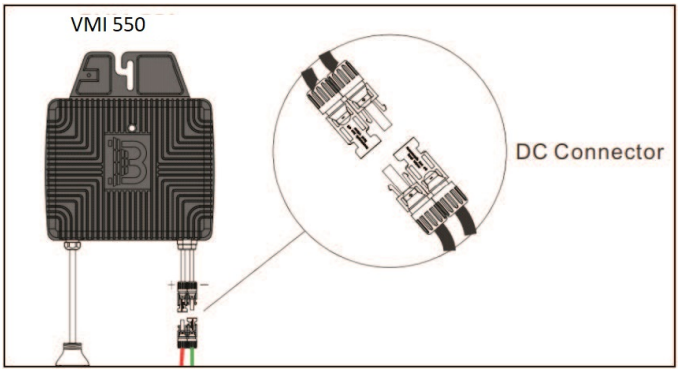


Step 6: Install the Waterproof Protective Cover on the End of the AC Bus and the Unused Female Connector (Skip If Not)





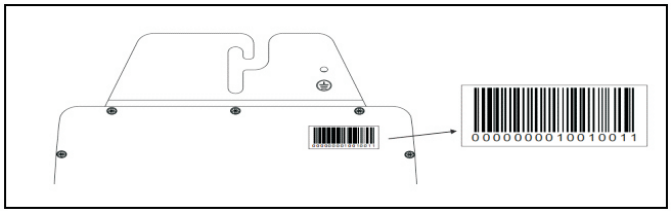
Step 7: Connect the Solar Modules, Connect Each BYM550 to the PV Modules



Step 8: Complete the Installation Diagram of VOLTACON Microinverter System

The installation diagram of Micro inverter system refers to the schematic diagram of the physical location of each microinverter in the solar system. Customers can use the blank diagram in the appendix of this manual to record the installation position of the microinverter in their own system, or they can Draw the system installation diagram yourself.
-Each Beny Microinverter has two removable serial number labels located on the case.
-Tear off one of the serial number labels and stick it to the corresponding position on the Beny system installation diagram, and peel off the other serial number label and stick it on the frame of the solar module for easy viewing.
-You can scan the label with your mobile phone to complete the addition and configuration of the micro-inverter in the VOLTACON Micro-Inverter APP.

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Step 9. Get Started

To operate the VOLTACON microinverter PV system:
1. Close the AC main circuit breaker connecting the microinverter system.
2. Close the on-grid main circuit breaker, and the system will generate electricity in about 1 minute.

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