

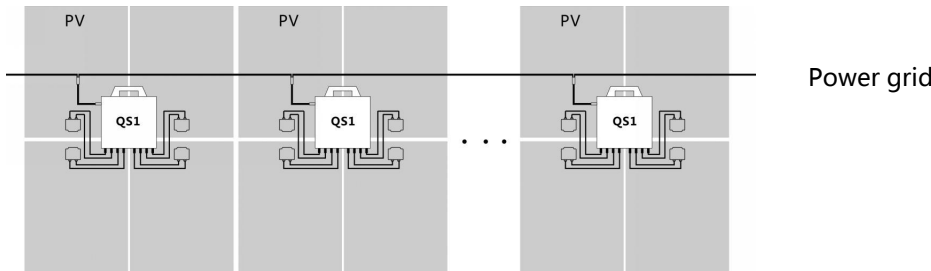


Please scan the QR code to get mobile app and more support to help the installation.

## QS1-LK Microinverter Quick Installation Guide

### The sketch of QS1 support system.

All the PV modules are placed into two lines. Then put a QS1 in the middle of the two lines and make sure it is easy to connect with four PV modules which are next to it, as well all the cables.



### Step 1. Verify the grid voltage to match with microinverter rating

### Step 2. The AC bus distribution

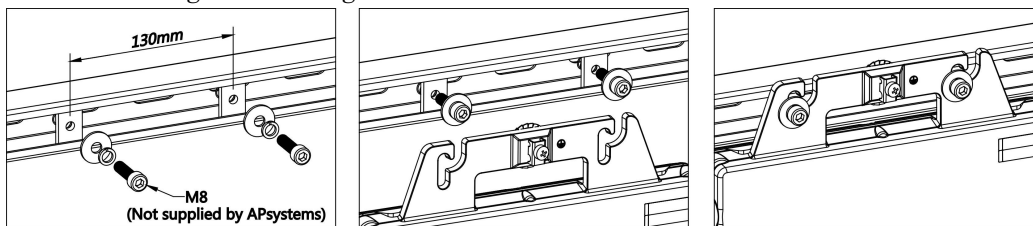
- The AC bus is arranged at the proper position of the microinverter.
- One end of the AC bus access junction box into power grid.
- Wire the conductors of the AC bus: L - BROWN; N - BLUE.

**NOTE: Wiring colour code can be different according local regulation, check all the wires of the installation before connecting to the AC bus to be sure they match. Wrong cabling can damage irreparably the microinverters, such an issue is not covered by the warranty.**

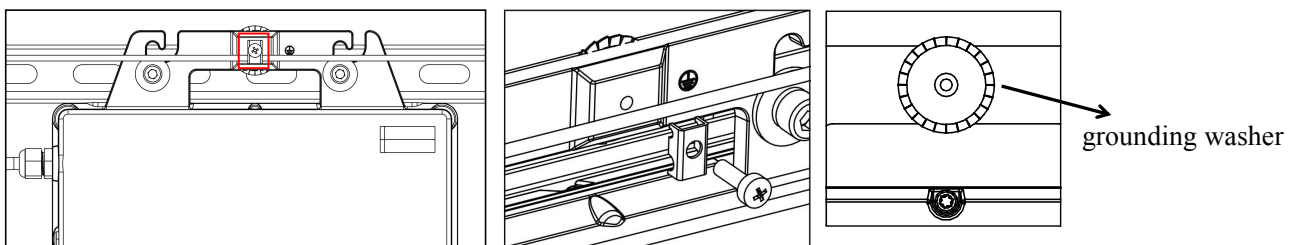
### Step 3. Attach the APsystems Microinverters to the racking

**NOTE: Do not place the microinverters (including DC and AC connectors) where exposed to the sun, rain or snow, even gap between modules. Allow a minimum of 3/4" (1.5cm.) between the roof and the bottom of the microinverter to allow proper air flow. The racking of install microinverter must be reliably grounding.**

- Mark the location of the microinverter on the rack, with respect to the PV module junction box or any other obstructions.
- Mount one microinverter at each of these locations using hardware recommended by your module racking vendor. when install microinverter, grounding washer must be facing the racking.

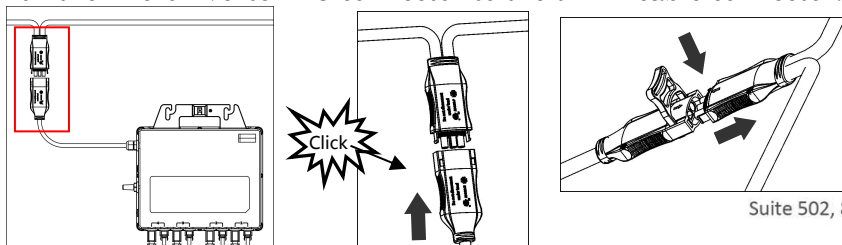


### Step 4. Ground the system.



### Step 5. Connect the APsystems Microinverter to AC bus cable

Push the microinverter AC connector to the trunk cable connector. Listen for the "Click".

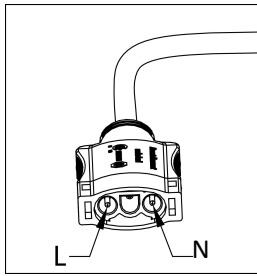


**Best Practice: Use the Bus Cable Unlock Tool of AC Bus to split the connectors.**

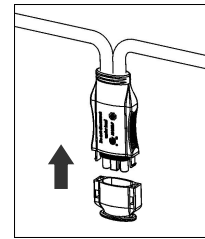
APsystems

Suite 502, 8 Help Street, Chatswood NSW 2067 Australia  
61 (0)2 8034 6587 | APsystems.com

**NOTE: AC connector interface as follows.**

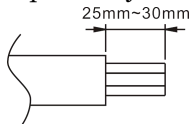


**NOTE: Cover any unused connectors with Bus Cable Y-CONN Cap to protect the connectors.**

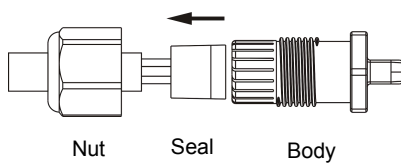


## Step 6. Install a Bus Cable End Cap at the end of AC bus cable.

a. Strip cable jacket.

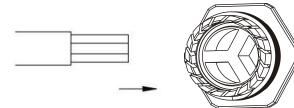


b. Insert the cable end into the seal.

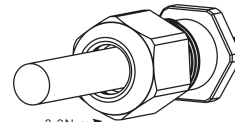


Nut Seal Body

c. Insert the wires into the cable clamps.

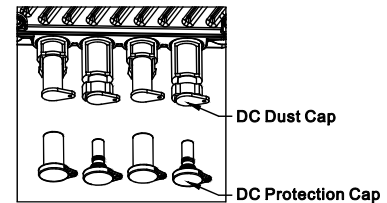
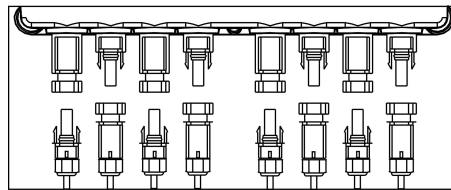
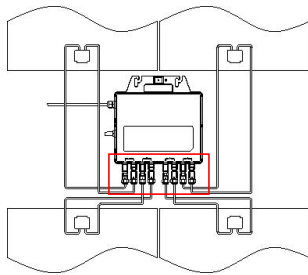


d. Rotate the nut with 3.3N·m until the latching mechanism meets the base.



3.3N·m

## Step 7. Place the PV modules and connect each QS1 to the PV modules

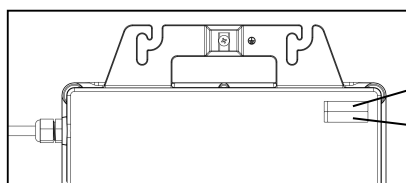


**NOTE: If the DC connector is not connected with the PV module, you need to remove the dust cap, and cover the protection cap.**

## Step 8. Complete the APsystems installation map

- Each APsystems Microinverter has removable serial number labels.
- Peel labels off, affix one to the respective location on the APsystems installation map, and fill in 1,2 in the label below, according to the layout on the roof.
- The other one serial number label, posted on the solar module frame is easy to view the position.
- After the completion of installation drawings sent to APsystems website.

[www.APsystems.com](http://www.APsystems.com).



**NOTE: Sequence of steps 1~8 can change for convenience of installation.**

**NOTE: Using APsystems' mobile app ArrayApp can make the installation and registration much more simple.**

## Step 9. Start the operation

- Turn on the AC circuit breaker on each microinverter AC branch circuit.
- Turn on the main utility-grid AC circuit breaker. Your system will start producing power after a two-minute waiting time.

**APsystems**

Suite 502, 8 Help Street, Chatswood NSW 2067 Australia  
61 (0)2 8034 6587 | APsystems.com