



Quick Design Guide

APsystems YC500 Photovoltaic Grid-connected Microinverter

Version 4.1 7/15

APsystems
600 Ericksen Ave NE, Ste 200; Seattle, WA 98110
TEL: 844-666-7035 EMAIL: info@APsystems.com
WEB: www.APsystems.com

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Step 1. Verify that the grid voltage matches the microinverter specifications.

Step 2. Install the AC branch circuit junction box.

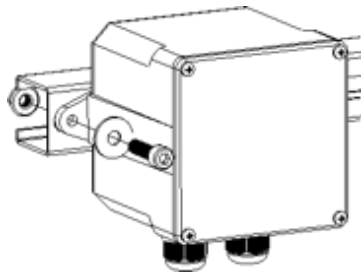


Figure 1

Step 3. Connect the cables to the AC branch circuit junction box.

1. Connect the open wire end of the AC branch end splice cable into the junction box using an appropriate gland or strain relief fitting.
2. Wire the conductors: L1- RED; L2 - BLACK; N -WHITE.
3. Connect the AC branch circuit junction box to the point of utility interconnection.

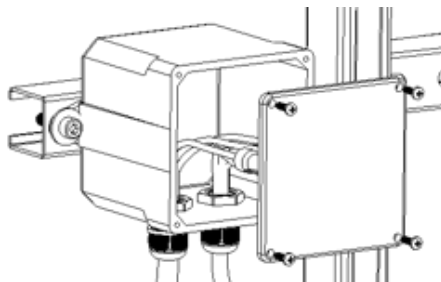


Figure 2

Step 4. Attach the APsystems microinverters to the racking or the PV module frame.

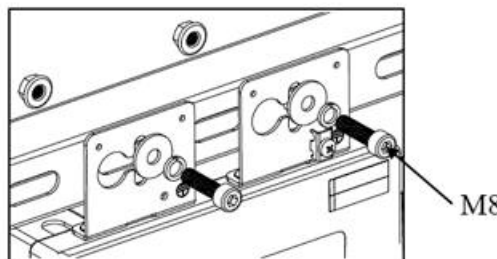
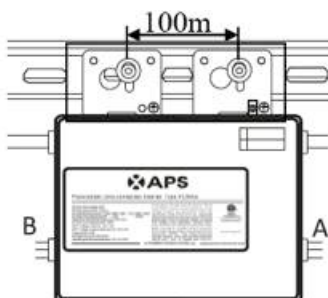


Figure 3

Step 5. Connect the APsystems microinverter AC cables.

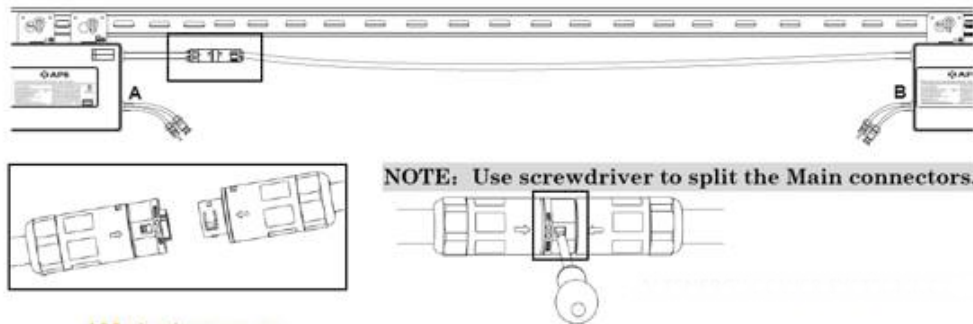


Figure 4

Step 6. Install a protective end cap on the open AC connector of the last microinverter in the AC branch circuit.

Step 7. Ground the system.

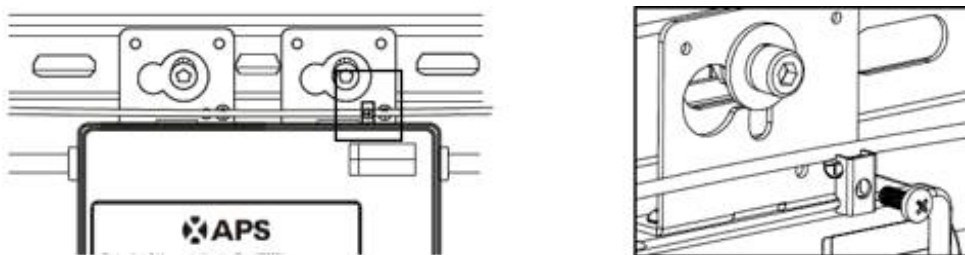


Figure 5

Step 8. Connect the APsystems microinverters to the PV modules.

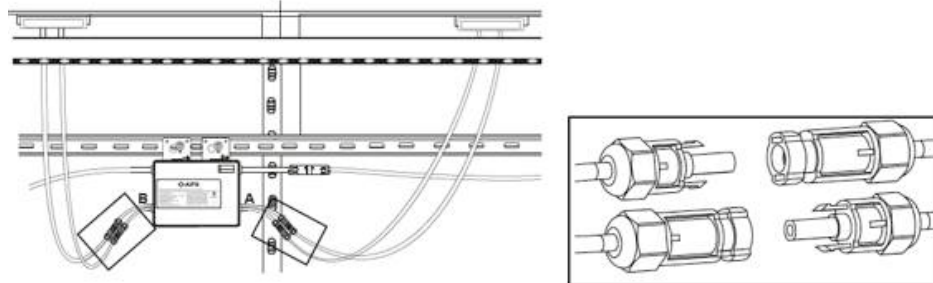


Figure 6

Step 9. Complete the APsystems installation map.

Step 10. Activate the system.

1. Turn ON the AC circuit breaker on each microinverter AC branch circuit.
2. Turn ON the main utility-grid AC circuit breaker. Your system will start producing power after a five-minute safety period.