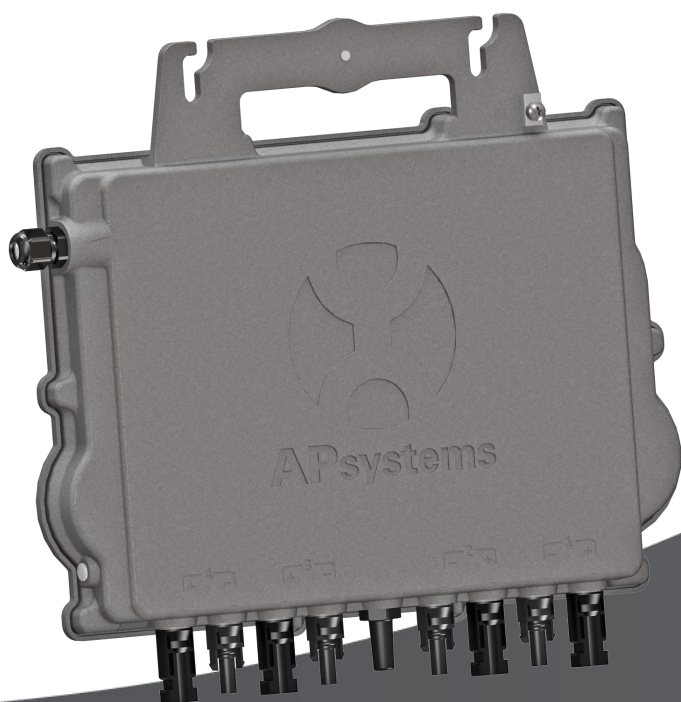


# APsystems Microinverter Installation Manual

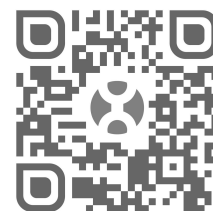
## APsystems QT2 3-Phase Microinverter (For APAC)



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Products information

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# 1. Important Safety Instructions

This manual contains important instructions to follow during installation and maintenance of the APsystems Photovoltaic Grid-connected Microinverter. To reduce the risk of electrical shock and ensure a safe installation and operation of the APsystems Microinverter, the following symbols appear throughout this document to indicate dangerous conditions and important safety instructions.

Specifications are subject to change without notice. Please ensure you are using the most recent update found at <https://global.apsystems.com/resources/library/>

## WARNING

This indicates a situation where failure to follow instructions may cause a serious hardware failure or personnel danger if not applied appropriately. Use extreme caution when performing this task.

## NOTICE

This indicates information that is important for optimized microinverter operation. Follow these instructions closely.

## 1.1 Safety Instructions

- ✓ **Do NOT** disconnect the PV module from the APsystems Microinverter without first disconnecting the AC power.
- ✓ Only qualified professionals should install and/or replace APsystems Microinverters.
- ✓ Perform all electrical installations in accordance with local electrical codes.
- ✓ Before installing or using the APsystems Microinverter, please read all instructions and cautionary markings in the technical documents and on the APsystems Microinverter system and the solar-array.
- ✓ Be aware that the body of the APsystems Microinverter is the heat sink and can reach a temperature of 80°C. To reduce risk of burns, do not touch the body of the Microinverter.
- ✓ **Do NOT** attempt to repair the APsystems Microinverter. If it fails, contact APsystems Customer Support to obtain an RMA number and start the replacement process. Damaging or opening the APsystems Microinverter will void the warranty.
- ✓ **Caution!**  
The external protective earthing conductor is connected to the inverter protective earthing terminal through AC connector. When connecting, connect the AC connector first to ensure the inverter earthing then do the DC connections. When disconnecting, disconnect the AC by opening the branch circuit breaker first but maintain the protective earthing conductor in the branch circuit breaker connect to the inverter ,then disconnect the DC inputs.
- ✓ Please install AC breakers on the AC side of the inverter.  
**CAUTION** - Hot surfaces - To reduce the risk of burns - Do not touch. Risk of electric shock-(a) both ac and dc voltage source are terminated inside this equipment. Each circuit must be individually disconnected before servicing, and (b) When the photovoltaic array is exposed to light, it supplies a dc voltage to this equipment. Warranty void if cover removed. No user serviceable parts inside.Refer servicing to qualified service personnel. This inverter has an integral ground-fault detector / interrupter (GFDI).This Utility-InteractiveInverter contains active anti-islanding protection(IEEE1547) and is tested per FCC/IC.

# 1. Important Safety Instructions

## 1.2 Radio Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

### WARNING

#### **RF exposure warning**

This equipment must be installed and operated in accordance with provided instructions and the antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter. End-users and installers must be provide with antenna installation instructions and transmitter operating conditions for satisfying RF exposure compliance.

# 1. Important Safety Instructions

## 1.3 Symbols replace words on the equipment, on a display, or in manuals

 **APsystems** Trademark.



Caution, risk of electric shock.



Caution, hot surface.



NOTICE, danger! This device directly connected with electricity generators and public grid.

Qualified personnel

Person adequately advised or supervised by an electrically skilled person to enable him or her to perceive risks and to avoid hazards which electricity can create. For the purpose of the safety information of this manual, a "qualified person" is someone who is familiar with requirements for safety, electrical system and EMC and is authorized to energize, ground, and tag equipment, systems, and circuits in accordance with established safety procedures. The inverter and photovoltaic system may only be commissioned and operated by qualified personnel.

### WARNING

#### **English Warning Statement:**

This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

### WARNING

#### **French Warning Statement:**

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

## 2. APsystems Microinverter System Introduction

The APsystems Microinverter is used in utility-interactive grid-tied applications, comprised of three key elements:

- APsystems Microinverter
- APsystems Energy Communication Unit (ECU)
- APsystems Energy Monitor and Analysis (EMA) web-based monitoring and analysis system

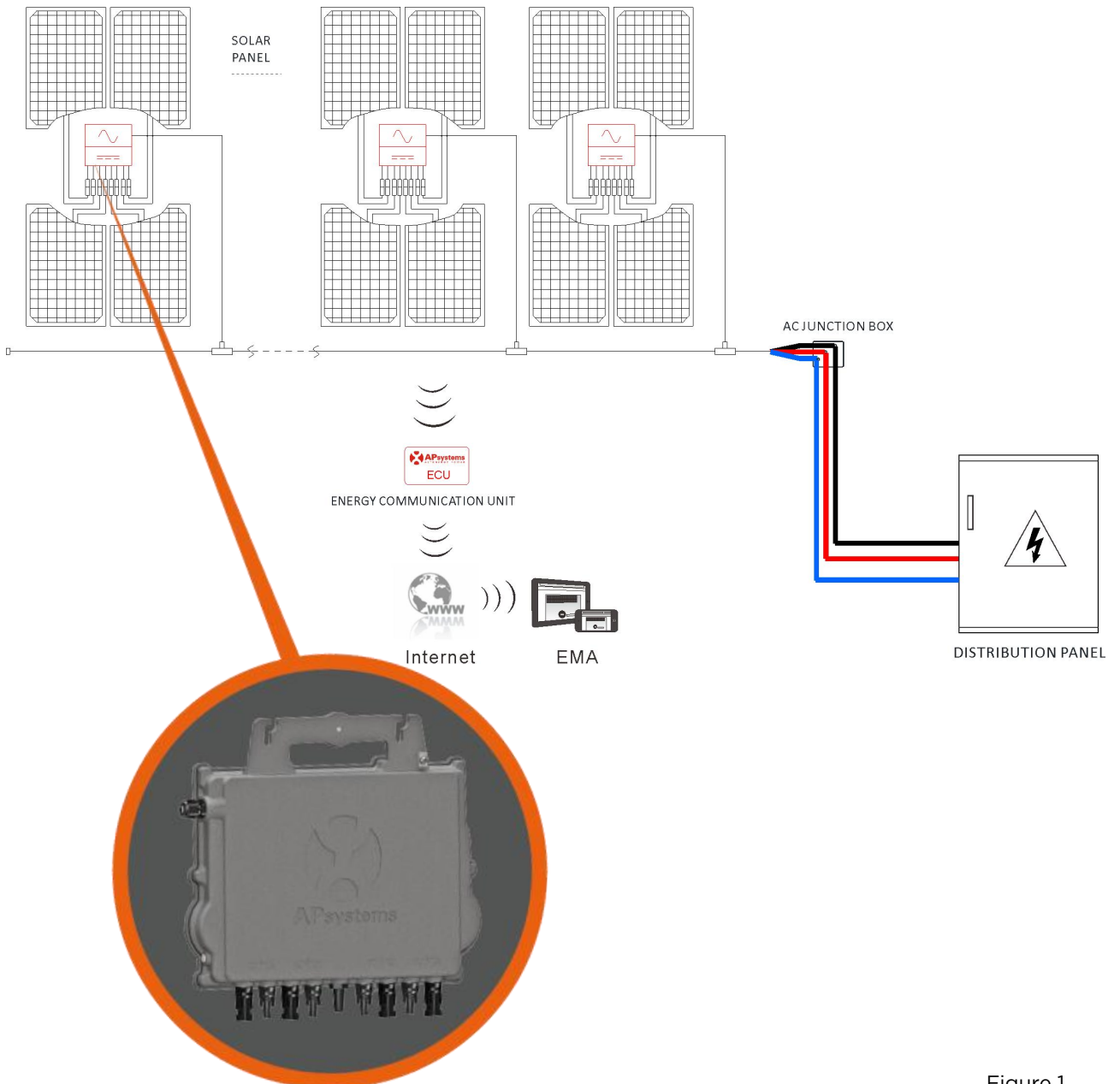


Figure 1

## 2. APsystems Microinverter System Introduction

This integrated system improves safety; maximizes solar energy harvest; increases system reliability, and simplifies solar system design, installation, maintenance, and management.

### **Safety with APsystems Microinverters**

In a typical string inverter installation, PV modules are connected in series. The voltage adds-up to reach high voltage value (from 600Vdc up to 1000Vdc) at the end of the PV string. This extreme high DC voltage brings a risk of electrical shocks or electrical arcs which could cause fire.

When using an APsystems microinverter, PV modules are connected in parallel. Voltage at the back of each PV module never exceeds PV modules Voc, which is lower than 60Vdc for most of PV modules used with APsystems microinverters. This low voltage is considered “safe to touch” by fire departments and negates the risk of electrical shock, electrical arcs and fire hazards.

### **APsystems Microinverters maximize PV energy production**

Each 2 input channels have individual Maximum Peak Power Tracking (MPPT) control, which ensures that the maximum power is produced to the utility grid regardless of the performance of the PV modules of other channels in the array. When PV modules in the array are affected by shade, dust, different orientation, or any situation in which one channel underperforms compared with the other channels, the APsystems Microinverter ensures top performance from the array by maximizing the performance of each channel individually within the array.

### **More reliable than centralized or string inverters**

The distributed APsystems Microinverter system ensures that no single point of system failure exists across the PV system. APsystems Microinverters are designed to operate at full power at ambient outdoor temperatures of up to 65 deg C (or 149 F). The inverter case is designed for outdoor installation and complies with the Type 6 environmental enclosure rating.

### **Simple to install**

APsystems Microinverters are compatible with most of 60 and 72 cell PV modules or 120 and 144 half-cut cells PV modules. (In order to confirm compatibility of PV module with APsystems microinverter, feel free to check our online “E-decider” module compatibility tool or contact your local APsystems Technical Support).

Installation requires a minimum number of accessories and microinverters offer a lot of versatility to the installer: microinverters can indeed be installed on different roofs with different orientation or with modules having different orientation.

In the same way, end-users can extend their system whenever they want with microinverters.

### **Smart system performance monitoring and analysis**

The APsystems Energy Communication Unit (ECU) is installed by simply plugging it into any wall outlet and providing an Ethernet or Wi-Fi connection to a broadband router or modem. After installing and setting the ECU (see ECU Instruction Manual), the full network of APsystems Microinverters automatically reports to the APsystems Energy Monitor and Analysis (EMA) web server.

## 3. APsystems Microinverter QT2 Introduction

APsystems introduces its 2<sup>nd</sup> generation of native 3-phase quad microinverters, reaching unprecedented power outputs of 1728VA (for QT2-208) and 1800VA (for QT2-480) to harness the power of today's high-output PV modules. The QT2 microinverter gives commercial installers a powerful plug-and-play MLPE inverter that installs faster than competing solutions and is inherently compliant to rapid shutdown requirements.

With balancing 3-phase output, 4 DC inputs and encrypted ZigBee wireless, installers and system owners alike benefit from new QT2 architecture platform. The innovative design facilitates thermal dissipation while maximizing power production. The components are encapsulated with silicone to reduce stress on the electronics, dissipate heat, enhance waterproof properties, and ensure maximum reliability of the system. 24/7 access to performance data through apps or APsystems EMA web-based portal facilitate remote diagnosis and troubleshooting.

The new QT2 is grid interactive through its Reactive Power Control (RPC) feature, designed to better manage photovoltaic power spikes in the grid. At 96.5% peak efficiency and improved reliability, the QT2 is a game changer for commercial solar.

### Key Product Feature:

- Designed for 3-phase grid connection(208V, 480V)
- Single unit connects to 4 modules, 2 MPPTs, module-level DC voltage
- Maximum continuous AC output power 1728VA @ 208V, 1800VA @ 480V
- Engineered to harness today's high-capacity PV modules (Maximum input current 20A)
- Integrated safety protection relay
- Adjustable power factor
- Balancing 3-phase output
- Compatible with both  $\Delta$  and Y 3-phase grid



## 4. APsystems Microinverter System Installation

A PV system using APsystems Microinverters is simple to install. Each Microinverter easily mounts on the PV racking, directly beneath the PV module(s). Low voltage DC wires connect from the PV module directly to the Microinverter, eliminating the risk of high DC voltage. Installation MUST comply with local regulations and technical rules.

**Special Statement:** we advise installation of an RCD breaker only if required by the local electrical code.

### WARNING

- ①. Perform all electrical installations in accordance with local electrical codes.
- ②. Be aware that only qualified professionals should install and/or replace APsystems Microinverters.
- ③. Before installing or using an APsystems Microinverter, please read all instructions and warnings in the technical documents and on the APsystems Microinverter system itself as well as on the PV array.
- ④. Be aware that installation of this equipment includes the risk of electric shock.
- ⑤. Do not touch any live parts in the system, including the PV array, when the system has been connected to the electrical grid.

### NOTICE

Even if not required by local electrical code, we strongly recommend to install surge protection devices in the dedicated AC box.

### 4.1 Additional accessories supplied by APsystems

- AC Y3 Bus cable
- AC Y3 Bus Cable End Cap
- AC Y3 Bus Cable Y-CONN Cap
- AC Y3 Bus Cable Unlock Tool
- ECU
- AC connectors male/female

### 4.2 Other required accessories not supplied by APsystems

In addition to your PV array and its associated hardware, you may need the following items:

- An AC connection junction box
- Mounting hardware suitable for module racking
- Sockets and wrenches for mounting hardware

## 4. APsystems Microinverter System Installation

### 4.3 PV Rapid Shut Down Equipment

This product is PV Rapid Shut Down Equipment and conforms with NEC-2014 and NEC-2017 section 690.12, for AC and DC conductors, when installed according to the following requirements:

- Microinverters and all DC connections must be installed inside the array boundary.
- The array boundary is defined as 305 mm (1 ft.) from the array in all directions, or 1 m (3 ft.) from the point of entry inside a building.

This rapid shutdown system must be provided with an initiating device and (or with) status indicator which must be installed in a location accessible to first responders, or be connected to an automatic system which initiates rapid shutdown upon the activation of a system disconnect or activation of another type of emergency system.

The initiator shall be listed and identified as a disconnecting means that plainly indicates whether it is in the “off” or “on” position. Examples are:

- Service disconnecting means
- PV system disconnecting means
- Readily accessible switch or circuit breaker

The handle position of a switch or circuit breaker is suitable for use as an indicator. Refer to NEC for more information.

Additionally, in a prominent location near the initiator device, a placard or label must be provided with a permanent marking including the following wording:

**'PHOTOVOLTAIC SYSTEM EQUIPPED WITH RAPID SHUTDOWN'** The term 'PHOTOVOLTAIC' may be replaced with 'PV.'

The label requires reference NEC 690.65 to meet the audit requirements.

## 4. APsystems Microinverter System Installation

### 4.4 Installation Procedures

#### 4.4.1 Step 1 - Verify that grid voltage matches microinverter rating

#### 4.4.2 Step 2 - Y3 AC Bus Cable distribution

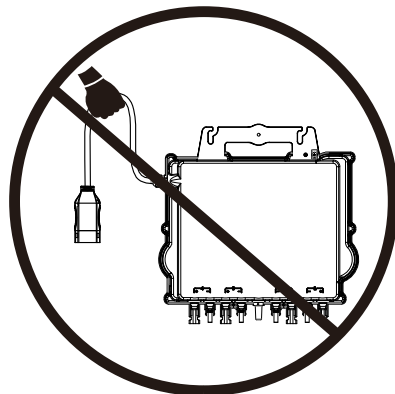
- Each connector drop of the AC Bus cable matches the position of the microinverter.
- One end of the AC bus cable is used to access the junction box into the power grid.
- Wire the conductors of the AC bus: L1 - BLACK ; L2 - RED; L3 - BLUE.

#### ⚠ WARNING

Wiring color code can be different according to the 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 damage is not covered by the warranty.

#### ⚠ WARNING

Do NOT carry the microinverter by the AC cable. This may cause the AC cable to partially or fully disconnect from the unit, resulting in no or poor operation.



#### 4.4.3 Step 3 - Attach the APsystems Microinverters to the Racking

- 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.

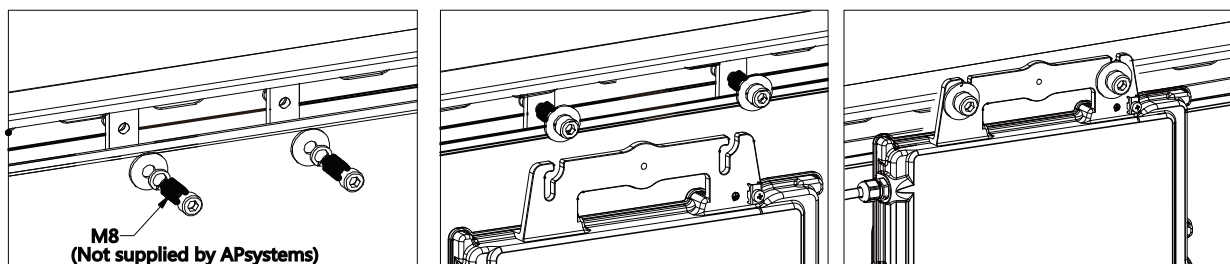


Figure 2

## 4. APsystems Microinverter System Installation

### WARNING

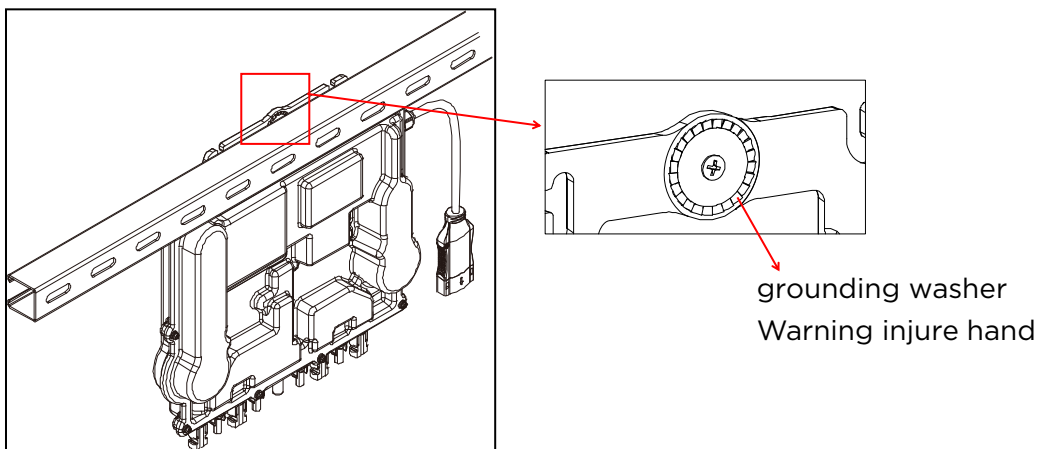
Install the microinverters (including DC and AC connectors) under the PV modules to avoid direct exposure to rain, UV or other harmful weather events. Allow a minimum of 1.5 cm (3/4") below and above the casing of the microinverter to allow proper air flow. The racking must be properly grounded as per local electrical code.

### 4.4.4 Step 4 - Ground the system

There're 2 ways to ground the QT2 series microinverters.

#### 1. By grounding washer attached.

After the microinverters and racking are reliably installed, the microinverter's grounding washer can connect to the racking to ensure proper earthing.



#### 2. By grounding copper wire.

Fix the grounding copper wire by the grounding lug.

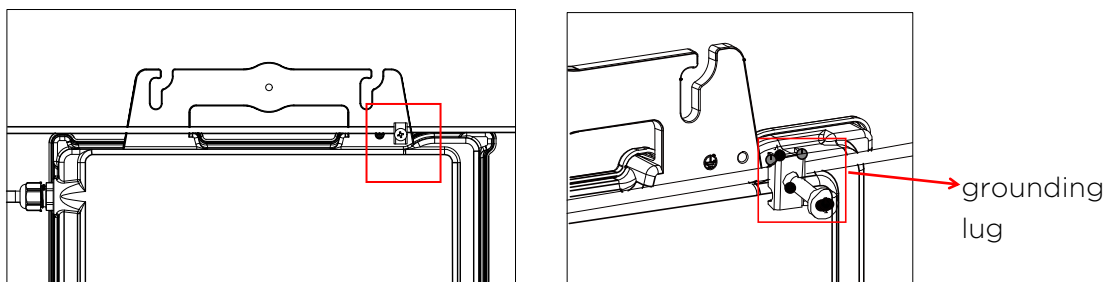


Figure 3

## 4. APsystems Microinverter System Installation

### 4.4.5 Step 5 - Connect the APsystems microinverter to AC bus cable

Insert the microinverter AC connector into the trunk cable connector. Make sure to hear the “click” as a proof of robust connection

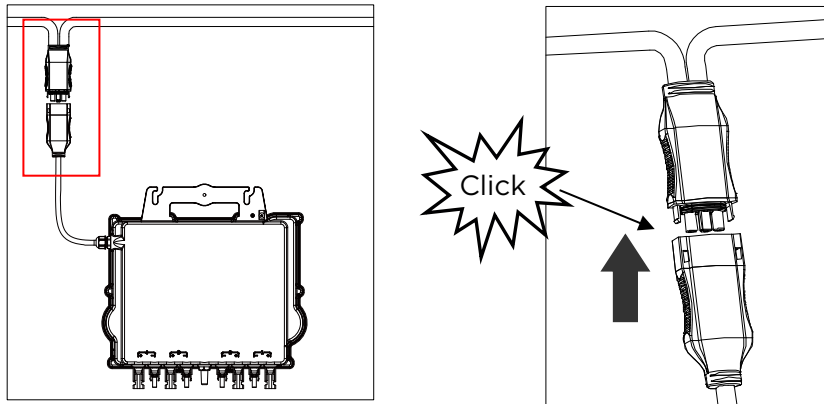


Figure 4

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

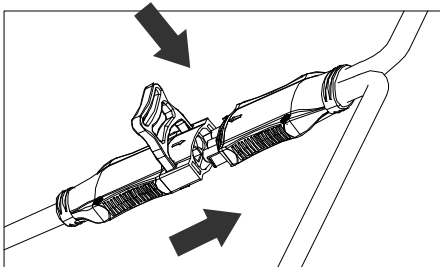


Figure 5

#### NOTICE

Check the microinverter technical data page 21 to confirm maximum allowable number of microinverters on each AC branch of the circuit.

*AC connector interface as from left to right.*

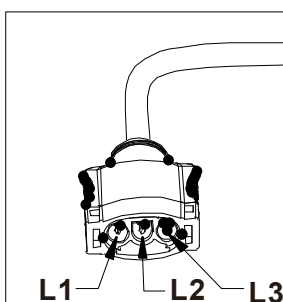


Figure 6

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

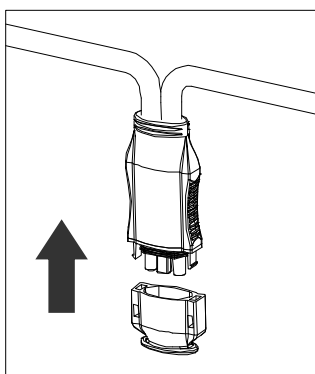


Figure 7

## 4. APsystems Microinverter System Installation

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

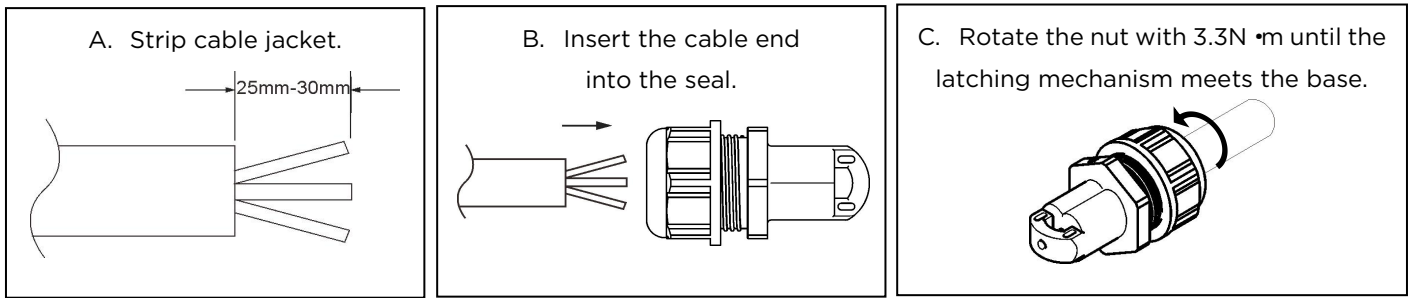


Figure 8

### 4.4.7 Step 7 - Connect APsystems Microinverters to the PV Modules

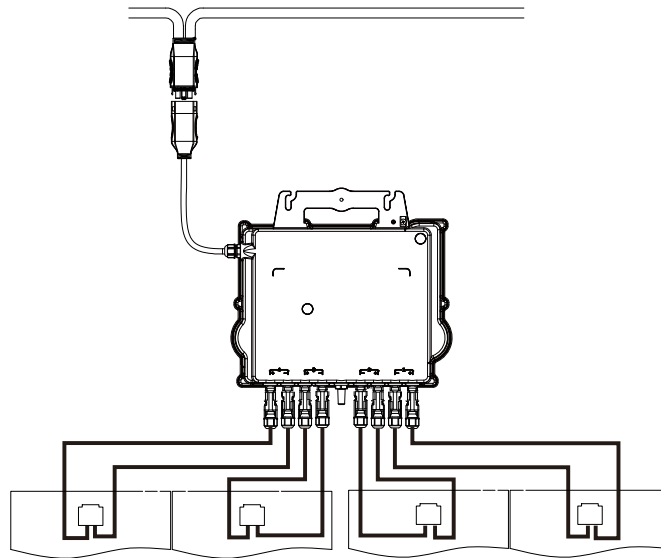


Figure 9

#### NOTICE

- No neutral wire output from inverter.
- Compatible with both Delta and Wye 3-phase grid.

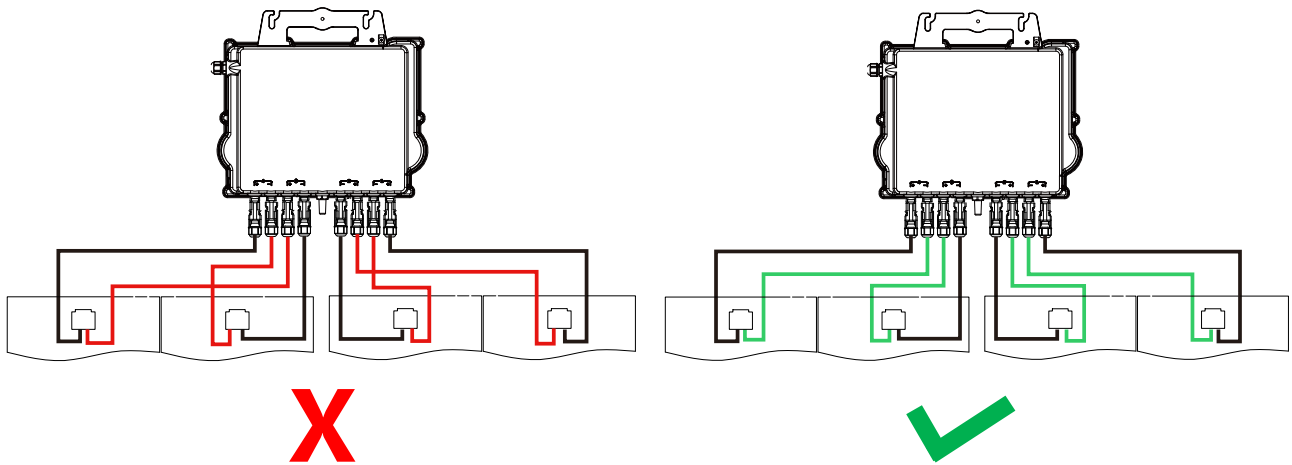
#### NOTICE

When plugging in the DC cables, the microinverter should immediately blink green ten times. This will happen as soon as the DC cables are plugged in and will show that the microinverter is functioning correctly. This entire check function will start and end within 10 seconds of plugging in the unit, so pay careful attention to these lights when connecting the DC cables.

## 4. APsystems Microinverter System Installation

### ⚠ WARNING

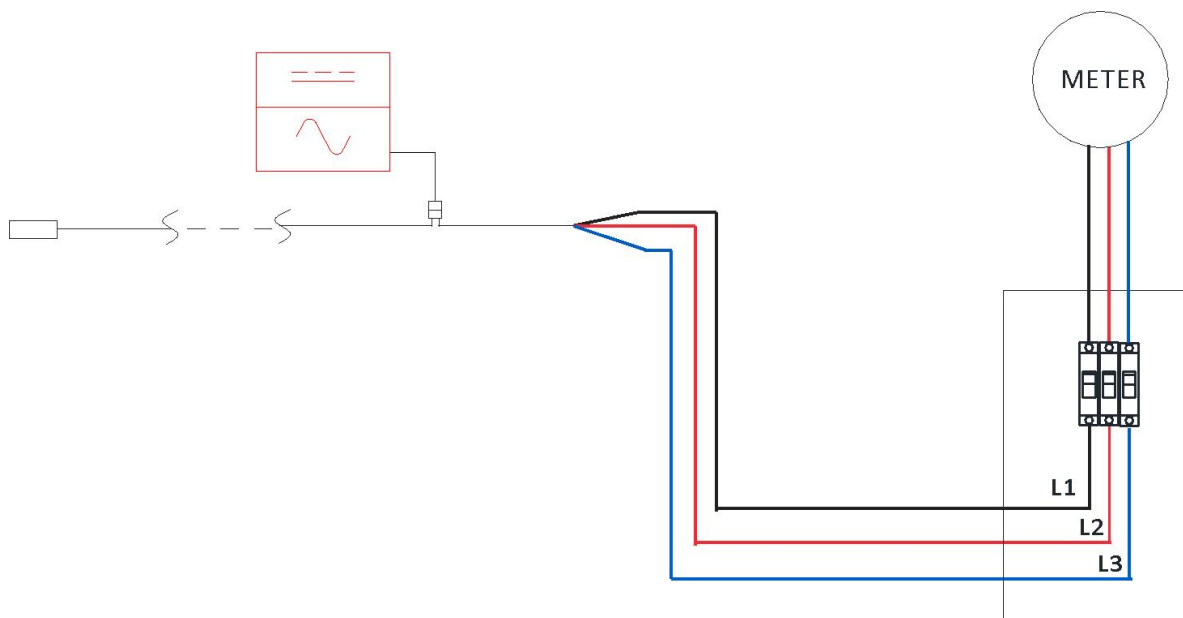
Double check to make sure all of the AC and DC wiring has been correctly installed. Ensure that none of the AC and/or DC wires are pinched or damaged. Make sure that all of the junction boxes are properly closed.



### ⚠ WARNING

Each PV panel must be carefully connected to the same channel. Make sure to not split positive and negative DC cables into two different input channels: microinverter will be damaged and warranty will not apply.

### 4.4.8 Step 8 - Connect APsystems Microinverters to Grid

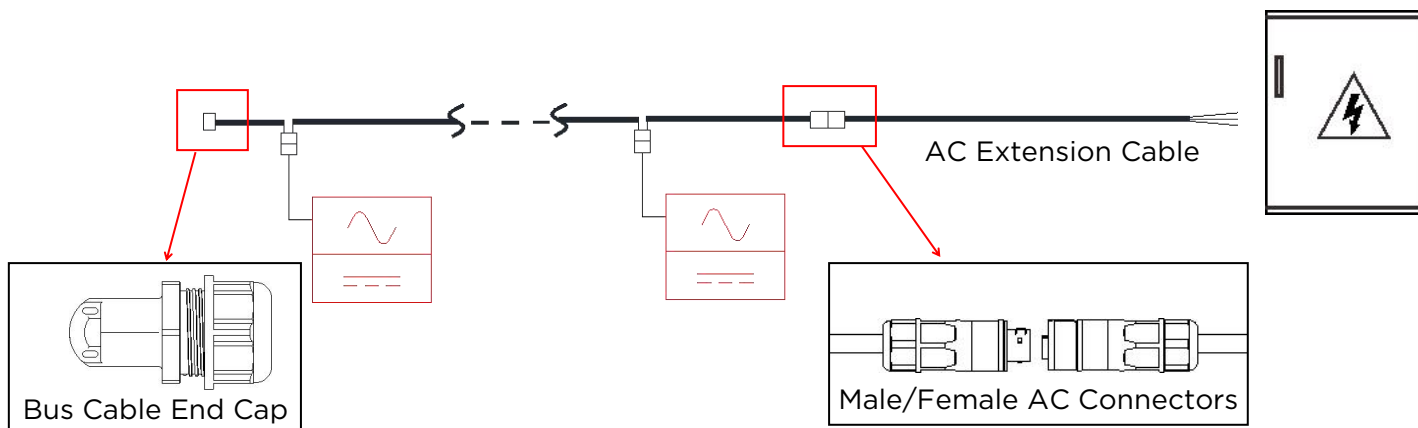


### 🔔 NOTICE

- ①. Please install bi-polar circuit breakers with proper rated current or according to the local regulation, which are mandatory to connect to grid.
- ②. Leakage current breakers or AFCI/GFCI breakers are not recommended to install.

## 4. APsystems Microinverter System Installation

### 4.4.9 Step 9 - AC Extension Cable



When AC extension cable is needed, users could connect the AC bus cable and AC extension cable in a junction box or use a pair of male/female AC connectors that APsystems provides as optional accessory.

### 4.4.10 Step 10 - Complete the APsystems installation map

- Each APsystems Microinverter has 2 removable serial number labels.
- Complete installation map by sticking ID label of each microinverter at the right location.
- The second serial number label, could be stuck on the solar module frame, which could help later to confirm the position of the microinverter without dismantling the PV module

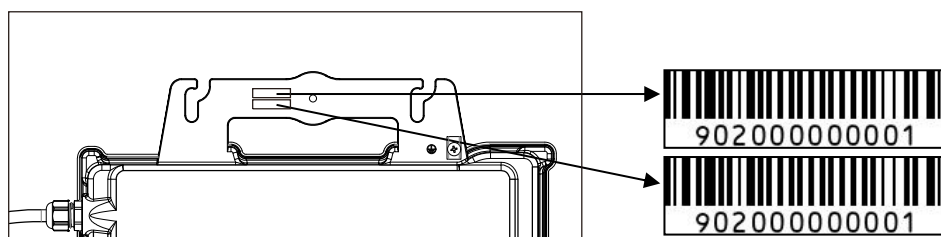


Figure 10

#### NOTICE

- The layout of the microinverters' serial numbers installation map is only suitable for typical installation
- Installation Map is available in the last page appendix of this manual.
- Use ECU\_APP (available in the EMA Manager) to scan the serial numbers on the map when setting up the ECU (see ECU instruction manual for more info).



## 5. APsystems microinverter system operating instructions

### To operate the APsystems microinverter PV 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 approximately one minute of waiting time.
3. Microinverter data will be available in the EMA Manager APP or in the EMA web portal.

Alternatively, LED sequences could be an indicator of microinverters status (see section 6.1)



#### NOTICE

Once the ECU has been commissioned properly, the APsystems Microinverters will start to send performance data to the ECU. The time required for all of the Microinverters in the system to report to the ECU will vary depending on the number of Microinverters in the system.

## 6. Troubleshooting

Qualified personnel can use the following troubleshooting steps if the PV system does not operate correctly:

### 6.1 Status Indications and Error Reporting

Assuming they are easily accessible and visible, Operation LEDs can give a good indication of the microinverters status

#### 6.1.1 Start up LED

Ten short green blinks when DC power is first applied to the Microinverter indicates a successful Microinverter startup.

#### 6.1.2 Operation LED

**Flashing Slow Green (5 sec. gap)** - Producing power and communicating with ECU

**Flashing Slow Red (5 sec. gap)** - Not producing power

**Flashing Fast Green (2 sec. gap)** - Not communicating with ECU over 60mins, but still producing power.

**Flashing Fast Red (2 sec. gap)** - Not communicating with ECU over 60mins and not producing power.

**Steady Red** - default, DC side ground fault protection, see 6.1.3

#### 6.1.3 GFDI Error

A solid red LED indicates the Microinverter has detected a Ground Fault Detector Interrupter (GFDI) error in the PV system. Unless the GFDI error has been cleared, the LED will remain red and the ECU will keep reporting the fault. Please contact your local APsystems Technical Support.

### 6.2 ECU\_APP

APsystems ECU\_APP (available in the EMA Manager APP) is the recommended tool to do on-site troubleshooting. When connecting the ECU\_APP to the ECU hotspot (please check ECU User Manual for more detailed information), installer can check every microinverter status (production, communication) but also ZigBee signal strength, grid profile and other insightful data helping the troubleshooting.

### 6.3 Installer EMA (web portal or EMA Manager APP)

Before going on site for troubleshooting, installer can also check all information remotely using his installer account, either on the web or using the EMA Manager APP (see EMA Manager APP User Manual for more detailed information). Having access to module data (DC, AC, voltages and currents) gives the first indication on potential issues.

### 6.4 Trouble Shooting Guide

Professional installers can also refer to our Troubleshooting Guide (<https://global.apsystems.com/resources/library/>) for more in depth guidelines on how to troubleshoot and fix PV installations powered by APsystems microinverters.

## 6.5 APsystems Technical Support

APsystems local Technical Support team is available to support professional installers to get familiar with our products and to troubleshoot installations when needed.

### WARNING

Do not attempt to repair APsystems Microinverters. Please contact your local APsystems Technical Support.

### WARNING

- ①. Never disconnect the DC wire connectors under load. Ensure that no current is flowing in the DC wires prior to disconnecting.
- ②. Always disconnect AC power before disconnecting the PV module wires from the APsystems Microinverter.
- ③. The APsystems Microinverter is powered by PV module DC power. AFTER disconnecting the DC power, when reconnecting the PV modules to the Microinverter, be sure to watch for the quick red light followed by ten short green LED flashes.

## 6.6 Maintenance

APsystems microinverters do not require any specific regular maintenance.

## 7. Replace a microinverter

### Follow the procedure to replace a failed APsystems Microinverter

- A. Disconnect the APsystems Microinverter from the PV Module, in the order shown below:
  1. Disconnect the AC by turning off the branch circuit breaker.
  2. Disconnect the inverter AC connector from the AC Bus.
  3. Disconnect the PV module DC wire connectors from the microinverter.
  4. Remove the Microinverter from the PV array racking.
  
- B. Install a replacement Microinverter to the rack. Remember to observe the flashing green LED light as soon as the new Microinverter is plugged into the DC cables.
  
- C. Connect the AC cable of the replacement Microinverter to the AC bus.
  
- D. Close the branch circuit breaker, and verify proper operation of the replacement Microinverter.
  
- E. Update the microinverter in EMA Manage through "Replace" function and update the system's map with new serial number labels.

## 8. Technical Data



### WARNING

- ①. Be sure to verify that the voltage and current specifications of your PV module are compatible with the range allowed on APsystems Microinverter. Please check the microinverter datasheet.
- ②. DC operating voltage range of the PV module must be within allowable input voltage range of the APsystems Microinverter.
- ③. The maximum open circuit voltage of the PV module must not exceed the specified maximum input voltage of the APsystems.

# 8.1 QT2 3-Phase Microinverter Datasheet

Region Model	Philippines etc.	
	QT2-208	QT2-480
<b>Input Data (DC)</b>		
Recommended PV Module Power (STC) Range	315Wp-670Wp+	
Peak Power Tracking Voltage	30V-45V	
Operating Voltage Range	26V-60V	
Maximum Input Voltage	60V	
Maximum Input Current	20A x 4	
<b>Output Data (AC)</b>		
Maximum Continuous Output Power	1728VA	1800VA
Nominal Output Voltage/Range <sup>(1)</sup>	208V/183V-229V	480V/422V-528V
Adjustable Output Voltage Range	166V-240V	385V-552V
Nominal Output Current	4.8Ax3	2.17Ax3
Nominal Output Frequency/Range <sup>(1)</sup>	60Hz/59.3-60.5Hz	
Adjustable Output Frequency Range	55Hz-65Hz	
Power Factor(Default/Adjustable)	0.99/0.8 leading...0.8 lagging	
Maximum Units per 10AWG branch <sup>(2)</sup>	7	16
AC Bus Cable	10AWG (35A)	
<b>Efficiency</b>		
Peak Efficiency	96.5%	
Nominal MPPT Efficiency	99.5%	
Night Power Consumption	40mW	
<b>Mechanical Data</b>		
Operating Ambient Temperature Range <sup>(3)</sup>	-40 °C to +65 °C	
Storage Temperature Range	-40 °C to +85 °C	
Dimensions (W x H x D)	359mm X 242mm X 46mm	
Weight	6kg	
DC Connector Type	Stäubli MC4 PV-ADBP4-S2&ADSP4-S2	
Cooling	Natural Convection - No Fans	
Enclosure Environmental Rating	Type 6	
<b>Features</b>		
Communication (Inverter To ECU) <sup>(4)</sup>	Encrypted ZigBee	
Isolation Design	High Frequency Transformers, Galvanically Isolated	
Energy Management	Energy Management Analysis (EMA) system	
Warranty <sup>(5)</sup>	10 Years Standard ; Extended Warranty Optional	
<b>Compliance</b>		
Compliance	UL1741; CA Rule 21 (UL 1741 SA); IEEE1547	

(1) Nominal voltage/frequency range can be extended beyond nominal if required by the utility.

(2) Limits may vary. Refer to local requirements to define the number of microinverters per branch in your area.

(3) The inverter may enter to power de-grade mode under poor ventilation and heat dissipation installation environment.

(4) Recommend no more than 80 inverters register to one ECU for stable communication.

(5) To be eligible for the warranty, APsystems microinverters need to be monitored via the EMA portal.

Please refer to our warranty T&Cs available on [global.APsistemas.com](http://global.APsistemas.com).

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Specifications subject to change without notice please ensure you are using the most recent update found at [global.APsistemas.com](http://global.APsistemas.com).

## 9. QT2 - Wiring Diagram

### 9.1 Sample Wiring Diagram

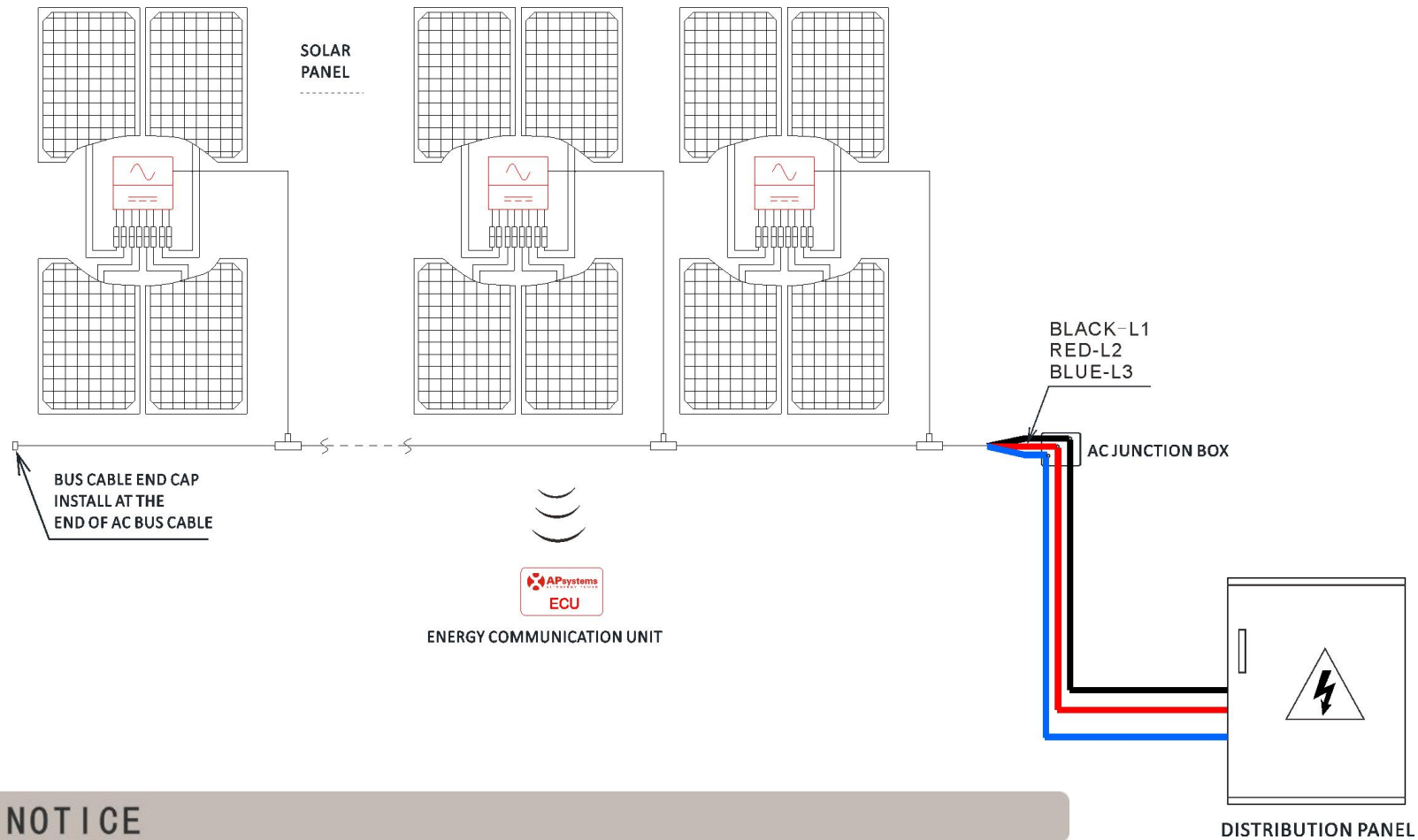



Figure 12

## 10. APsystems Microinverter Installation Map

The APsystems Installation Map is a diagram of the physical location of each microinverter in your PV installation. Each APsystems microinverter has two serial number labels. Peel the one label and affix it to the respective location on the APsystems installation map.

Installation Map Template

<b>Installer:</b>		<b>PV module type:</b>		<b>Qty:</b>		<b>Sheet ___ of ___</b>	<b>N</b> 
<b>Owner:</b>		<b>Microinverter type:</b>		<b>Qty:</b>			
	Column 1	Column 2	Column 3	Column 4	Column 5	Column 6	Column 7
Row 1							
Row 2							
Row 3							
Row 4							
Row 5							
Row 6							
Row 7							
Row 8							
Row 9							
Row 10							