



YOTTA
ENERGY

DPI-208 & DPI-480 Installation / User manual



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1. Important Safety Instructions

This manual contains important instructions to follow during installation and maintenance of the **Yotta DPI-208 and DPI-480** Grid Support Utility Interactive Microinverter. To reduce the risk of electrical shock and ensure the safe installation and operation of the **DPI-208 and DPI-480 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



This symbol indicates a situation where not following instructions may cause a serious hardware or safety issue and/or put people in danger. Be extremely cautious when performing this task.



This symbol provides important indication to follow in order to optimize the DPI-208 and DPI-480 Microinverters operations. Follow these instructions closely.

1.1 Safety Instructions

- Do **NOT** disconnect the PV module from the DPI-208 and DPI-480 Microinverter without first disconnecting the AC power.
- Only qualified professionals should install and/or replace **Yotta DPI-208 and DPI-480 Microinverters**.
- Perform all electrical installations in accordance with local electrical codes.
- Before installing or using the DPI-208 and DPI-480 Microinverter, please read all instructions and warning notices in the technical documents and on the DPI-208 and DPI-480 Microinverter system and the solar array.
- Be aware that the case of the DPI-208 or DPI-480 Microinverter is the heat sink and can reach a temperature of 80°C. To reduce risk of burns, do not touch the case of the DPI-208 and DPI-480 Microinverter.
- Do **NOT** attempt to repair the DPI-208 or DPI-480 Microinverter. If it fails, contact Yotta ENERGY Customer Support to obtain an RMA number and start the replacement process. Damaging or opening the DPI-208 and DPI-480 Microinverter will **void the warranty**.
- **Caution!** Unlike other Yotta microinverters, DPI-208 and DPI-480 do not provide a ground connection through the AC connector. Ensure the microinverter is grounded, connect the AC then do the DC connections.
- Please install isolation switching devices 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-Interactive Inverter contains active anti-islanding protection (IEEE1547) and is tested per FCC/IC.

1. Important Safety Instructions

1.2 Radio Interference Statement

FCC/IC Compliance: The 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 (ICES-003), which are designed to protect against harmful interference in a residential installation. The equipment could radiate radio frequency energy and this might cause harmful interference to radio communications if instructions are not followed when installing and using the equipment. But there is no guarantee that interference will not occur in a particular installation. If this equipment causes harmful interference to radio or television reception, the following measures might resolve the issues:

- A) Relocate the receiving antenna and keep it well away from the equipment.
- B) Consult the dealer or an experienced radio / TV technical for help.

***Changes or modifications not expressly approved by the party responsible for compliance may void the user's authority to operate the equipment.**

Federal Communication Commission Interference Statement

FCC Caution:

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Non-modification Statement:

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

FCC Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

1. Important Safety Instructions

1.3 Symbols replace words on the equipment, on a display, or in manual.



Caution! Risk of electric shock



Caution! Hot surface



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

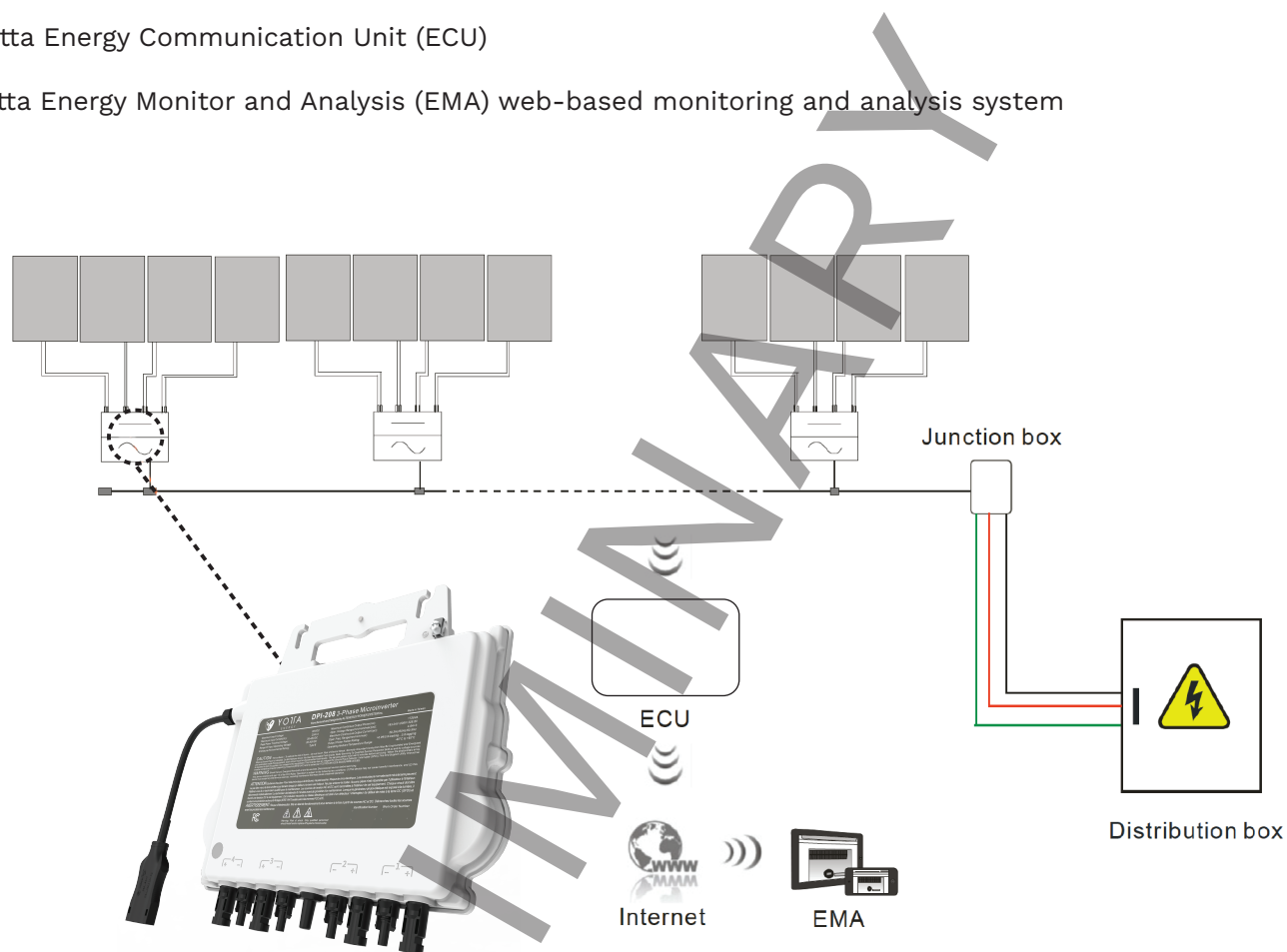
Qualified personnel

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 complete system may only be commissioned and operated by qualified personnel.

2. Yotta DPI-208 and DPI-480 System Introduction

The Yotta DPI-208 and DPI-480 Microinverter is used in utility-interactive grid-tied applications, comprised of three key elements:

- Yotta DPI-208 and DPI-480 Microinverter
- Yotta Energy Communication Unit (ECU)
- Yotta Energy Monitor and Analysis (EMA) web-based monitoring and analysis system



2. Yotta DPI-208 and DPI-480 System Introduction

This integrated system improves safety; maximizes solar energy harvest; increases system reliability, and simplifies solar system design, installation, maintenance, and management. In a typical string inverter installation, PV modules are connected in series adding the PV panel voltages which can exceed 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.

Yotta DPI connects PV modules are connected in parallel which does not increase the PV panel voltage. DC voltages in the system never exceeds PV panel Voc, which is typically lower than 60Vdc. This low voltage is considered “safe to touch” by fire departments and negates the risk of electrical shock, electrical arcs and fire hazards

Yotta DPI-208 and DPI-480 maximize PV energy production

Two PV modules in parallel inside the Yotta DPI-208/480 and share Maximum Peak Power Tracking (MPPT) controls, which ensures that the maximum power is produced to the utility grid regardless of the performance of the other PV modules in the array. When PV modules in the array are affected by shade, dust, orientation, or any situation in which one module underperforms compared with the other units, the Yotta DPI-208 and DPI-480 Microinverter ensures top performance from the array by maximizing the performance of each module pair within the array.

More reliable than centralized or string inverters

The distributed Yotta DPI-208 and DPI-480 Microinverter system ensures that no single point of system failure exists across the PV system. Yotta Microinverters are designed to operate at full power at ambient outdoor temperatures of up to 149°F (65°C). The inverter case is designed for outdoor installation and complies with the IP67 environmental enclosure rating.

Simple to install

You can install individual PV modules in any combination of module quantity, orientation, type, and power class. However, modules connected to the same MPPT channel must have the same electrical specifications and be the same power class.

Smart system performance monitoring and analysis

The Yotta Energy Communication Unit (ECU) is installed by simply connecting it to AC power and providing an Ethernet or Wi-Fi connection to a broadband router or modem. After installing and configuring the ECU, the full network of Microinverters automatically reports to the Yotta Energy Monitor and Analysis (EMA) web server. The EMA software displays performance trends, informs you of abnormal events, and controls system shutdown when it is needed. (See ECU manual for instructions.)

3. Yotta DPI-208 and DPI-480 Microinverter Introduction

The Yotta DPI-208 and DPI-480 Microinverter connect to 3 phase grids and operate with most 60 and 72 cell PV modules. Contact Yotta Energy Customer Support for checking compatibility. For more information, please see the Technical Data section of this manual.

Yotta's DPI family is expanded with the DPI-208/480 native 3-phase quad microinverters at power ratings up to 1800VA (for the DPI-480) designed to be used with modern larger power PV modules. With a balanced 3-phase output, 4 DC inputs, encrypted ZigBee signals, the DPI-208/480 family benefits from an entirely new architecture.

The components are encapsulated with silicone to reduce stress on the electronics, facilitate thermal dissipation, enhance waterproof properties, and ensure maximum reliability of the system via rigorous testing methods including accelerated life testing.

The new DPI-208/480 is interactive with power grids featuring RPC (Reactive Power Control) to better manage photovoltaic power spikes injected into the grid. In addition, it provides 96.5% peak efficiency with 20% less components compared to the last generation product.

Model Number	AC grid	PV module	Module Connector
DPI-208 and DPI-480	60Hz / 208V 60Hz / 480V	60, 72 Cell	MC-4 Type

4. Yotta DPI-208 and DPI-480 System Installation

A PV system using DPI-208 and DPI-480 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.



- Perform all electrical installations in accordance with local electrical codes.
- Be aware that only qualified professionals should install and/or replace DPI-208 and DPI-480 Microinverters.
- Before installing or using an DPI-208 and DPI-480 Microinverter, please read all instructions and warnings in the technical documents and on the Microinverter system itself as well as on the PV array.
- Be aware that installation of this equipment includes the risk of electric shock.
- Do not touch any live parts in the system, including the PV array, when the system has been connected to the electrical grid.



It is strongly recommended to install surge protection devices in the dedicated meter box.

4.1 Additional Installation components for DPI-208 and DPI-480

- Bus Cable
- ECU (Sold separately)
- AC Connectors Male/Female (if extending the bus cable)
- Bus Cable End Cap (Sold separately)
- Bus Cable Y-CONN Cap (Sold separately)
- Bus Cable unlock tool (Sold separately)

4.2 Required Parts and Tools from you

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

- An AC connection junction box.
- Mounting hardware suitable for module racking.
- Accessories and tools to securely attach the mounting system.

4.3 PV Rapid Shutdown Equipment (PVRSE)

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:

- 1) Microinverters and all DC connections must be installed inside the array boundary.
- 2) 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:

- 1) Service disconnecting means
- 2) PV system disconnecting means
- 3) 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.'

Refer to NEC 690.65 to ensure placard meets all audit requirements.

4. Yotta DPI-208 and DPI-480 System Installation

4.4 Installation Procedures

4.4.1 Step 1 - Verify the grid voltage to match with Microinverter rating

4.4.2 Step 2 - Install the AC bus cable

- A) The AC bus is installed at a position matching the microinverter location.
B) One end of the AC bus enters the junction box for connection to the power grid.
C) Wire the conductors of the AC bus: L1 - BLACK; L2 - RED; L3 - BLUE. DPI-208/480 are compatible with Delta and WYE grids and do not require a neutral connection. The AC bus cable does not provide a neutral or ground wire. Grounding must be accomplished using one of the 2 methods noted.



Wiring colour code can be different according to local regulations, 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 issue is not covered by the warranty.

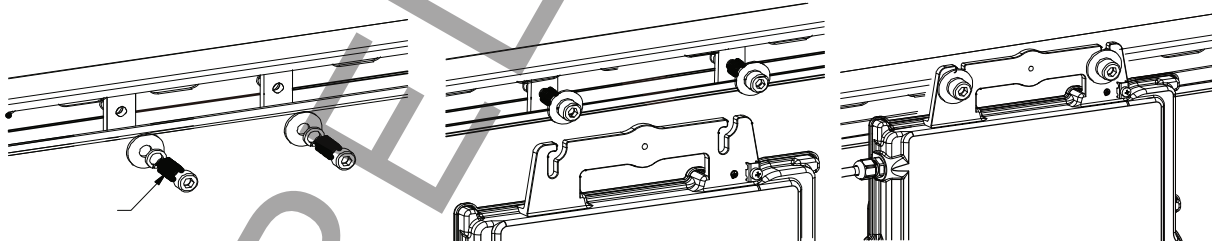


Do **NOT** carry the inverter using the AC cable.



4.4.3 Step 3 - Attach the Microinverters to the racking

- A) Mark the location of the Microinverter on the rack. Take into consideration the position of the PV module junction box or any other obstructions.
B) Mount one Microinverter at each of these locations using hardware recommended by your module racking vendor. When installing the Microinverter, make sure the grounding washer is facing the racking.



Prior to installing any of the DPI-208 and DPI-480 Microinverter, verify that the utility Voltage at the point of common connection matches the voltage rating on the Microinverter label.



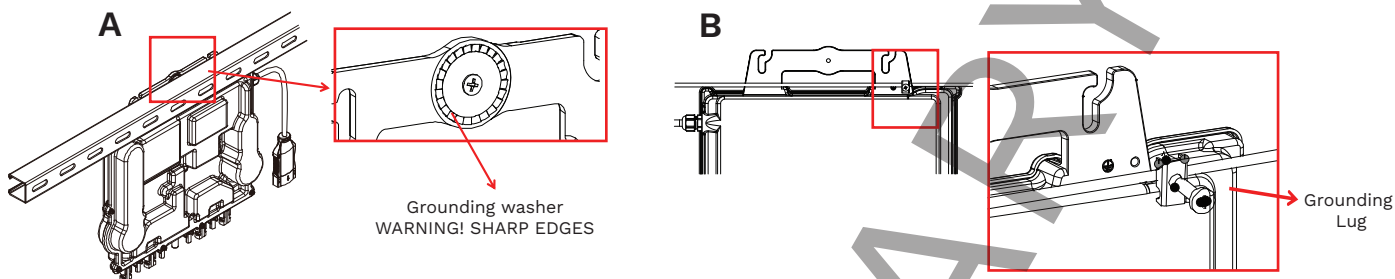
Do not place the inverters (including DC and AC connectors) in direct exposure to the sun, rain, or snow. Allow a minimum of 2 cm (3/4") of space around the Microinverter case for heat dissipation and proper air flow. The racking used to attach the microinverter should be reliably grounded.

4. Yotta DPI-208 and DPI-480 System Installation

4.4.4 Step 4 - Ground the system

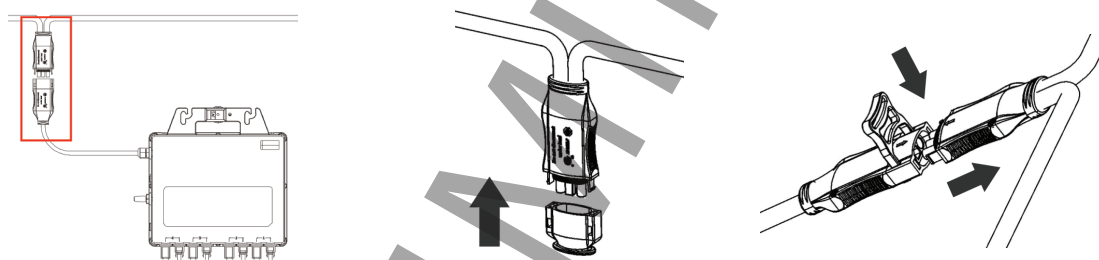
There's two options to properly ground the microinverter:

- A) Using the grounding washer.
- B) Using grounding copper wire through the grounding lug.

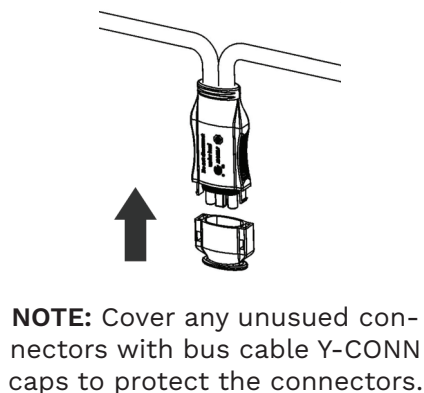
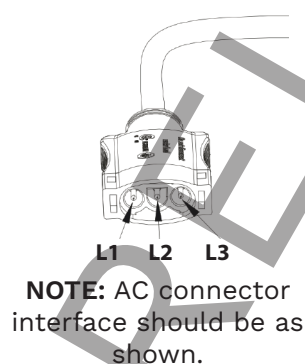


4.4.5 Step 5 - Connect the DPI-208 and DPI-480 microinverter to AC bus cable

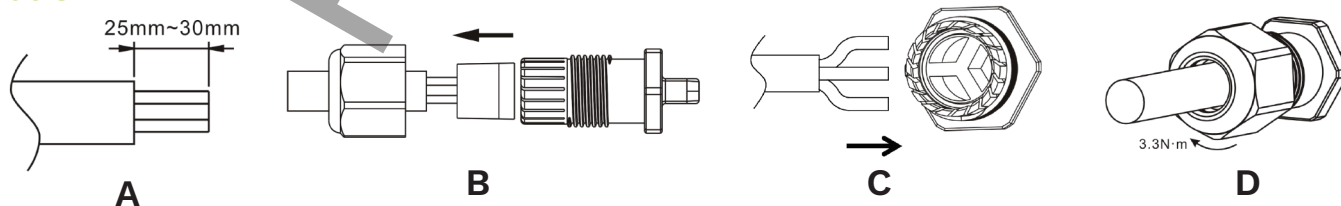
Connect the DPI-208 and DPI-480 to the AC bus cable. Push the Microinverter AC connector to the Bus cable connector. Listen for the "Click".



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

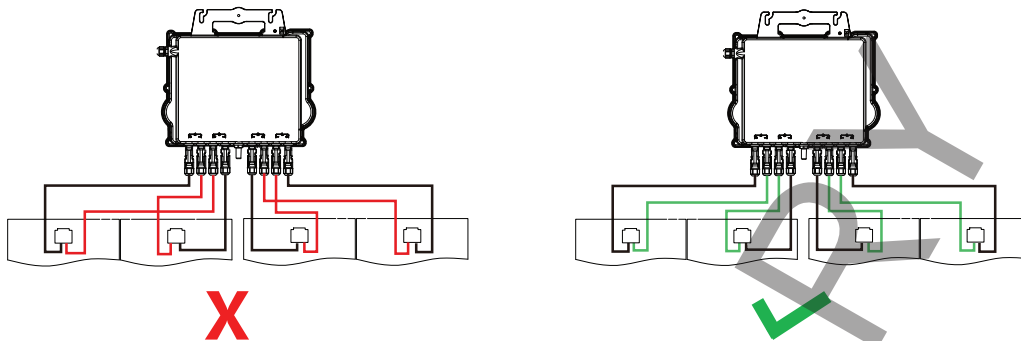


4.4.6 Step 6 - Install a AC bus protective end cap at the end of AC bus



4. Yotta DPI-208 and DPI-480 System Installation

4.4.7 Step 7 - Connect DPI-208 and DPI-480 Microinverters to the PV Modules



When plugging in the DC cables, the microinverter should immediately blink green ten (10) 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 ten (10) seconds of plugging in the unit, so pay attention to these lights when connecting the DC cables.



Each PV module must be carefully connected to the same channel. Never split positive and negative cables into two different channels, otherwise the inverter will be damaged and warranty will not apply.

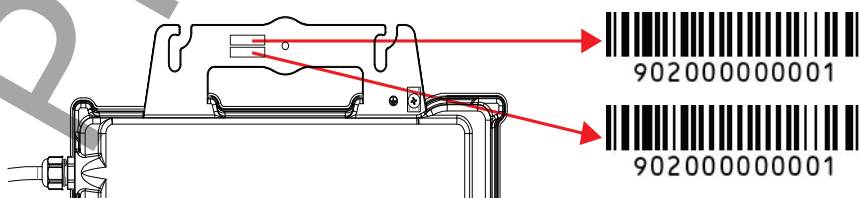


Double check to make sure all of the AC and DC wiring has been correctly installed. Ensure that none of the AC and/or DC wires are pinched or damaged. Make sure that all of the junction boxes are properly closed.

4.4.8 Step 8 - Complete the DPI-208 and DPI-480 installation map

Fill in the Yotta Registration Cards which provide system information and the Installation Map. Feel free to provide your own layout if a larger or more advanced installation map is required. The layout map provided is designed to accommodate labels in vertical or horizontal orientation to meet all the field PV connections.

- A) Each DPI-208 and DPI-480 Microinverter has removable serial number labels.
- B) Peel labels off, affix one to the respective location on the Yotta DPI-208 and DPI-480 Installation Map according to the layout on the roof.



Yotta DPI-208 and DPI-480 Microinverter & Energy Communication Unit Warranty

[illegible]

- A)** The layout of the Microinverters serial numbers on the warranty card is only suitable for general arrangement.
- B)** Warranty card is located in the appendix (Last page of this manual).
- C)** You can use Scanning Gun or mobile phone to scan the serial numbers on the map when setting up the ECU (see ECU manual).

5. DPI-208 and DPI-480 System Operating Instructions

To operate the DPI-208 and DPI-480 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 a locally mandated delay, usually 5 minutes..
- 3) The units should start blinking green every 2 seconds five minutes after turning on the AC circuit breaker. This means they are producing power normally, but have not yet connected to the ECU. After the ECU has been plugged in, setup acknowledges the Microinverters, they will start to blink green every 10 seconds.
- 4) Install and setup the ECU according to the instructions in the ECU manual
- 5) The Yotta DPI-208 and DPI-480 Microinverters will start to send performance data over ZigBee to the ECU. The time required for all the Microinverters in the system to report to the ECU will vary with the number of Microinverters in the system. You can verify proper operation of the Yotta DPI-208 and DPI-480 Microinverters via the ECU. See the ECU Installation and Operation Manual for more information.

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

6.1.1 Start up LED

One quick red light followed by three 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 but communicating with ECU

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.

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. After the ground fault error is fixed, follow the instructions in the ECU Installation and Operation Manual to clear this GFDI error reporting.

6.1.4 Other Faults

All other faults are reported to the ECU. Refer to the ECU Installation and Operation Manual for a list of



Only qualified personnel should directly handle the Yotta DPI-208 and DPI-480



- 1) Never disconnect the DC wire connectors under load. Ensure that no current is flowing through the DC wires prior to disconnecting.
- 2) Always disconnect AC power before disconnecting the PV module wires from the Yotta DPI-208 and DPI-480 Microinverter.
- 3) The DPI-208 and DPI-480 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 three short LED flashes.

6. Troubleshooting

6.2 Troubleshooting a non-operating DPI-208 and DPI-480 Microinverter

There are two possible overall areas of trouble:

- A)** The Microinverter itself may be having problems.
- B)** The Microinverter itself is working fine but it is having trouble communicating with the ECU. The items below refer to Microinverter issues, not communication issues (addressed in the ECU manual).

A quick way to tell whether the issue is with the Microinverter or a communication problem with the ECU:

- 1)** Diagnosing the Microinverter: A red light – either blinking or solid on the Microinverter, or no light at all. No light, or a red light, means it is definitely a Microinverter problem.
- 2)** Diagnosing from the ECU:

- A)** No-Data-Display: This is probably a communication issue, not a Microinverter problem.
- B)** Problems with erratic display: Data is displayed for some period and then no data is displayed. Most likely a communication issue.
- C)** 0 watts, or 2 watts: Possibly a Microinverter problem.
- D)** Erratic data display that is not coordinating with data displays from other units is most likely a Microinverter problem.

To troubleshoot a non-operating DPI-208 and DPI-480 Microinverter, Follow the steps below in order:

- 1)** Verify the utility voltage and frequency are within ranges shown in the Technical Data section of this manual.
- 2)** Check the connection to the utility grid. Verify utility power is present at the inverter in question by removing AC, then DC power. Never disconnect the DC wires while the microinverter is producing power. Re-connect the DC module connectors and watch for three short LED flashes.
- 3)** Check the AC branch circuit interconnection between all the microinverters. Verify each inverter is energized by the utility grid as described in the previous step.
- 4)** Make sure that any AC breaker are functioning properly and are closed.
- 5)** Check the DC connections between the microinverter and the PV module.
- 6)** Verify the PV module DC voltage is within the allowable range shown in the Technical Data of this manual.
- 7)** If the problem persists, please call Yotta Energy Customer Support.



Do not attempt to repair the DPI-208 and DPI-480 Microinverter. If troubleshooting methods fail, please return the microinverter to your distributor for replacement.

6.3 Maintenance

No need for maintenance.

7. Replacing a DPI-208 and DPI-480 Microinverter

Follow the procedure to replace a failed Microinverter

- A) Turn off circuit breaker first.
- B) Disconnect the Microinverter from the PV Module, in the order shown below:
 - 1) Disconnect the inverter AC connector from the AC Bus.
 - 2) Disconnect the first AC connector in the branch circuit.
 - 3) Disconnect the PV module DC wire connectors from the microinverter.
 - 4) Remove the Microinverter from the PV array racking.
- C) Install a replacement Microinverter to the rack. Remember to observe the flashing LED light as soon as the new Microinverter is plugged into the DC cables.
- D) Connect the AC cable of the replacement Microinverter on the AC bus.
- E) Close the branch circuit breaker, and verify operation of the replacement Microinverter.

8. Technical Data



- 1) Be sure to verify the voltage and current specifications of your PV module match with those of the Microinverter. Please refer to the datasheet or user manual.
- 2) You must match the DC operating voltage range of the PV module with the allowable input voltage range of the Yotta DPI-208 and DPI-480 Microinverter.
- 3) The maximum open circuit voltage of the PV module must not exceed the specified maximum input voltage of the DPI-208 and DPI-480 Microinverter,

Grid Support Details

The DPI-208 and DPI-480 is a grid support interactive inverter. This type of inverter is also known as a Grid Support Utility Interactive Inverter . The DPI-208 and DPI-480 also comply with California Rule 21. The grid support function is controlled by the ECU .



Simultaneous use of Fixed Power Factor and Volt/VAr is not supported.

Manufacture's Stated Accuracy

Measurement	Default Tolerance of Measurement
Volts	2V
VAr	10%
power factor	0.05
Hz	+/-0.1Hz

8.1 DPI-208 and DPI-480 Microinverter Datasheet

Model	DPI-208		DPI-480
Input Data (DC)			
Peak Power Tracking Voltage	32V-45V		
Operating Voltage Range	26V-60V		
Maximum Input Voltage	60V		
Maximum Input Current	20A x 4		
Maximum Input Short Circuit Current	25A per input		
Output Data (AC)			
Maximum Continuous Output Power	1728VA	1800VA	
Nominal Output Voltage/Range ⁽¹⁾	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 ⁽¹⁾	60Hz/59.3Hz-60.5Hz		
Adjustable Output Frequency Range	55Hz-65Hz		
Power Factor	0.99/0.8 leading...0.8 lagging		
Maximum Units per 30A branch ⁽²⁾	5	11	
AC Bus Cable	AWG 10		
Efficiency			
Peak Efficiency	96.5%		
Nominal MPPT Efficiency	99.5%		
Night Power Consumption	40mW		
Mechanical Data			
Operating Ambient Temperature Range ⁽³⁾	-40°F to +149°F(-40°C to +65°C)		
Storage Temperature Range	-40°F to +185°F(-40°C to +85°C)		
Dimensions (W x H x D)	14" x 9.5" x 1.8" (359mm X 242mm X 46mm)		
Weight	13 lbs (6kg)		
DC Connector Type	Stäubli MC4 PV-ADBP4-S2&ADSP4-S2		
Cooling	Natural Convection - No Fans		
Enclosure Environmental Rating	Type 6		
Features			
Communication (Inverter To ECU) ⁽⁴⁾	Encrypted ZigBee		
Isolation Design	High Frequency Transformers, Galvanically Isolated		
Energy Management	Yotta Vision EMA		
Warranty	10 Years Standard ; 25 Years Optional		
Certificate&Compliance			
Safety, EMC & Grid Compliances	UL-1741; CSA C22.2 No. 107.1-16; CA Rule 21 (UL 1741 SA); FCC Part15; ANSI C63.4; ICES-003; IEEE1547; NEC2014 & NEC2017 Section 690.11 DC Arc-Fault circuit; Protection NEC2014 & NEC2017 & NEC2020 Section 690.12 Rapid Shutdown of PV systems on Building		

"(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) Inverter may enter low power mode in environments with poor ventilation or limited heat dissipation

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



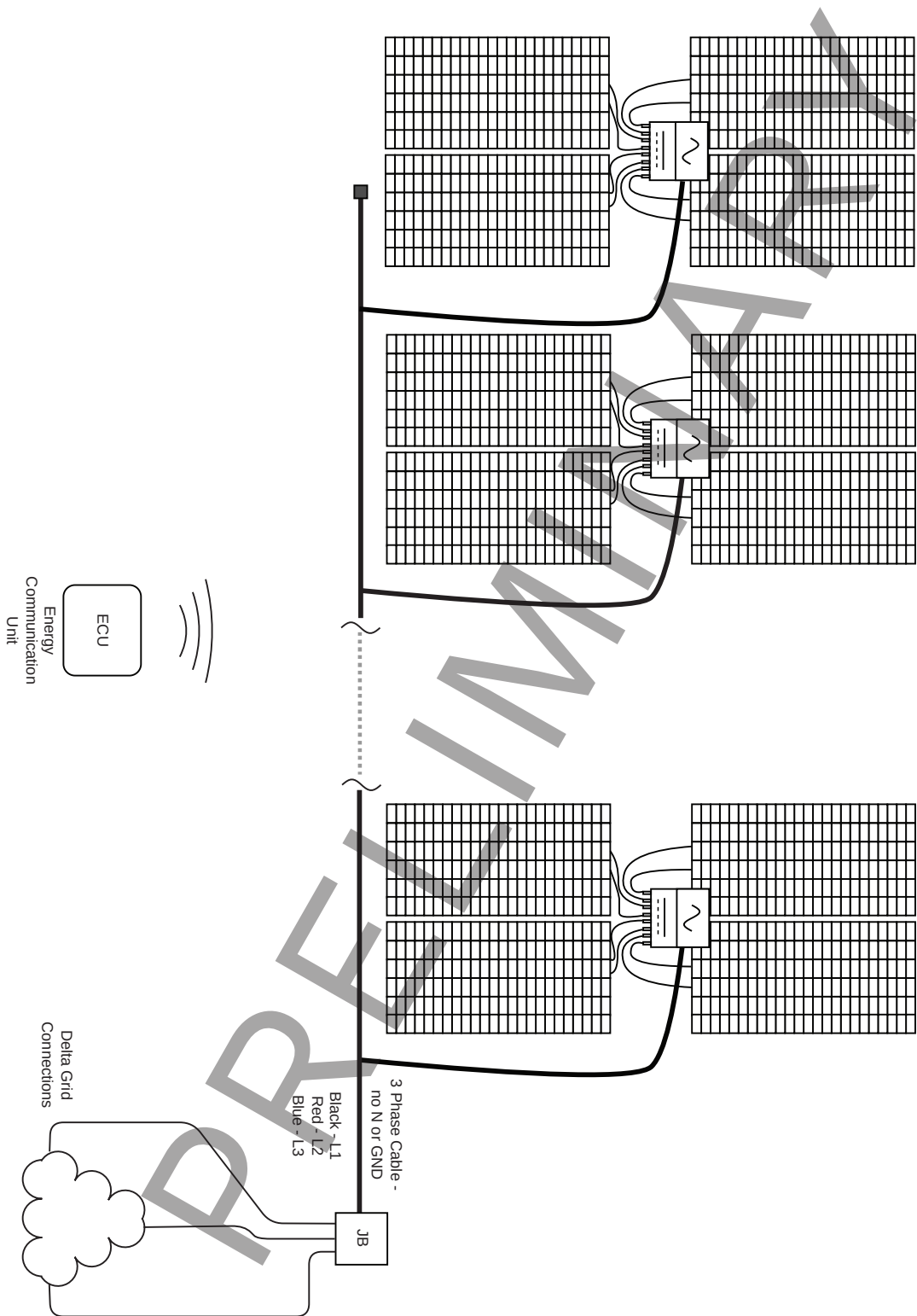
8.1 DPI-208 and DPI-480 Microinverter Datasheet

Note 1: Utility Interconnection Voltage and Frequency Trip Limits and Trip Times

Voltage and frequency limits for utility Interaction				
Condition	Simulated utility source		Maximum time (sec) (cycles) at 60 Hza before cessation of current to the simulated utility	trip time accuracy
	Voltage (V)	Frequency (Hz)		
A	$< 0.50 V_{nor}$	Rated	0.16	+/-80ms
B	$0.50 V_{nor} \leq V < 0.88 V_{nor}$	Rated	1	+/-200ms
C	$1.10 V_{nor} < V < 1.20 V_{nor}$	Rated	1	+/-200ms
D	$1.20 V_{nor} \leq V$	Rated	0.16	+/-80ms
E	Rated	$f > 60.5$	0.16	+/-200ms
F	Rated	$f < 59.3$	0.16	+/-200ms

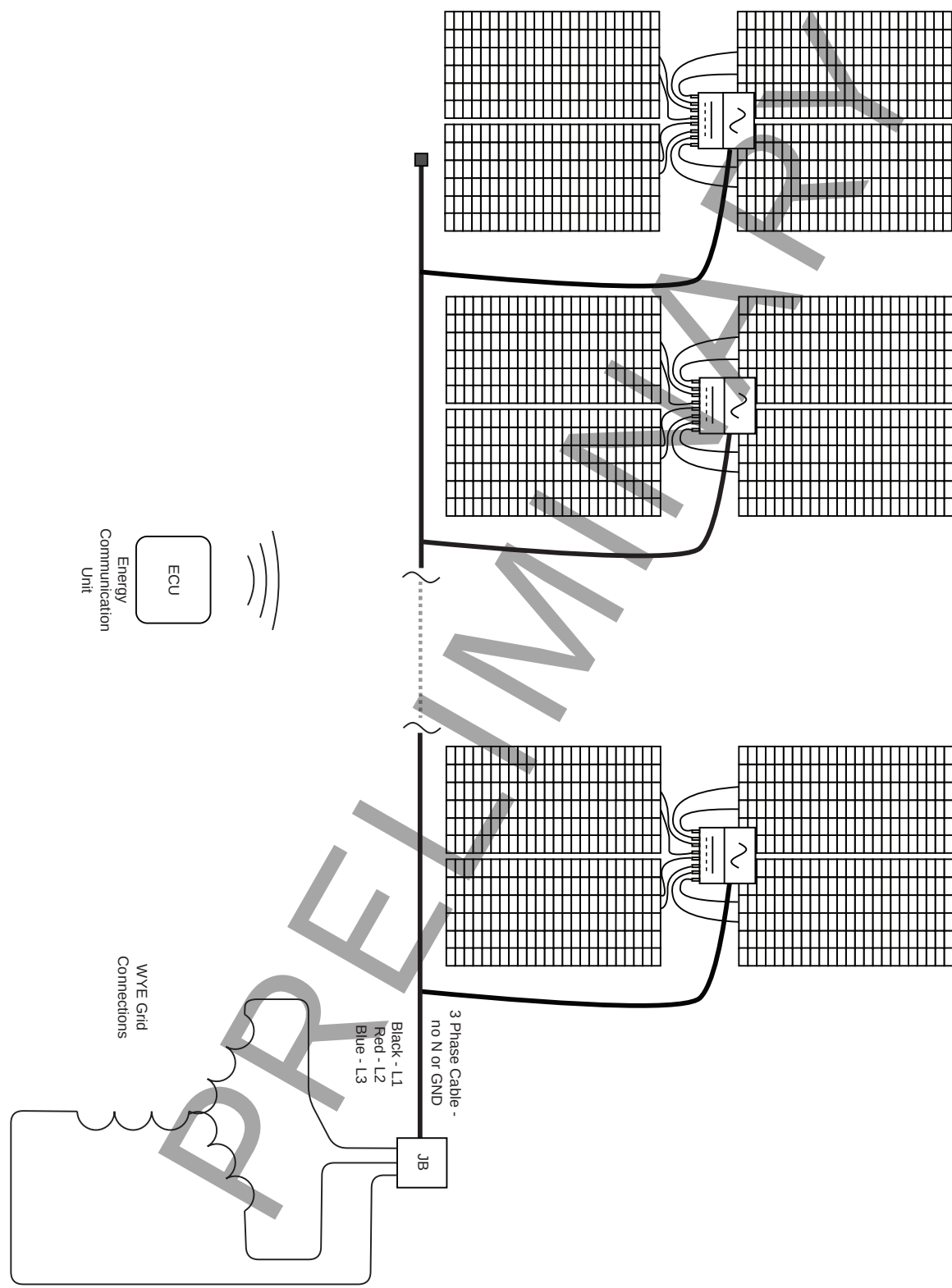
9. Wiring Diagram

9.1 DPI-208 and DPI-480 Connected to Delta grids



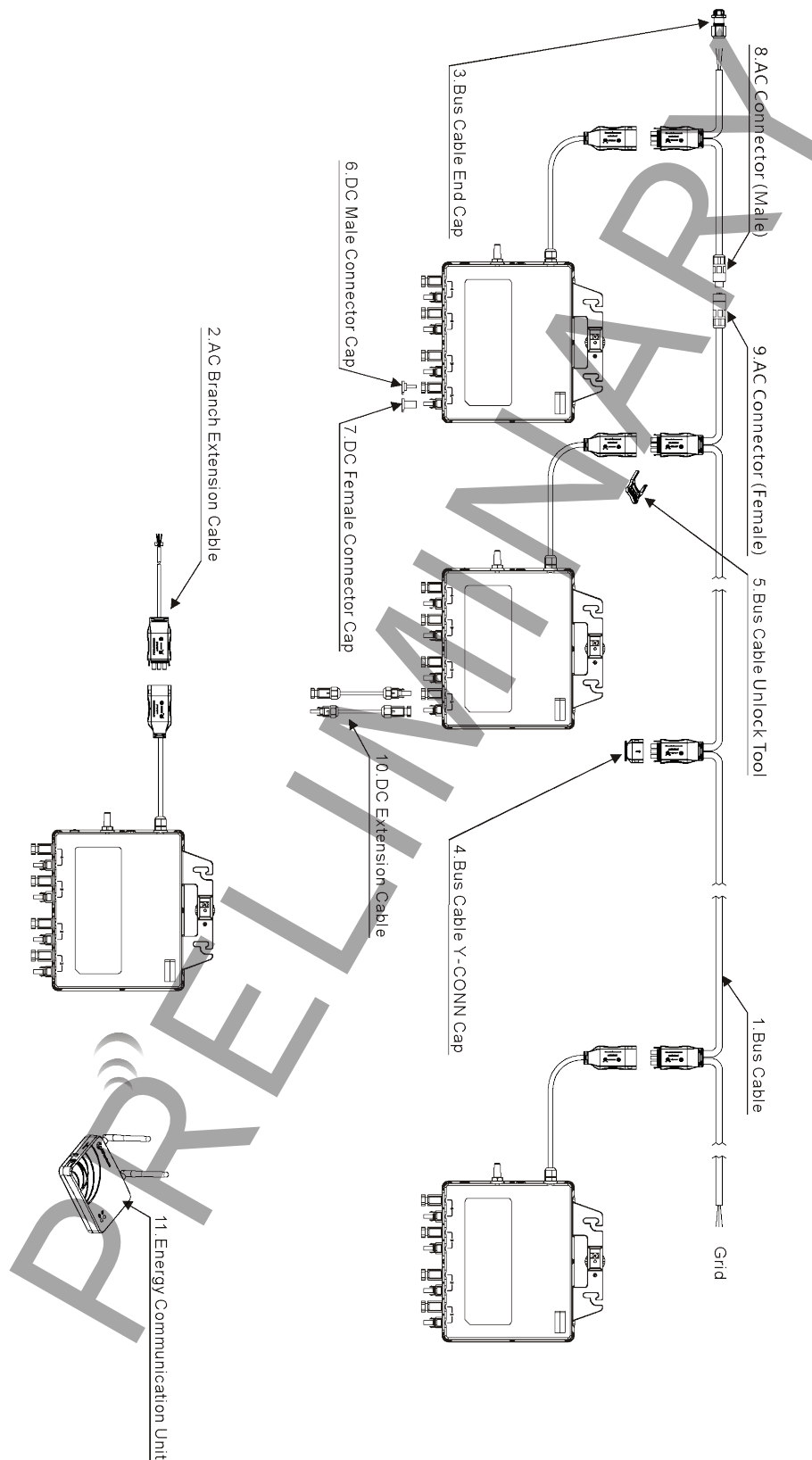
9. Wiring Diagram

9.2 DPI-208 and DPI-480 Connected to WYE grids



10. DPI-208 and DPI-480 Accesories

10.1 Wiring Diagram



10. DPI-208 and DPI-480 Accesories

10.2 Accesories Summary

Category		Part NO.	Name	Pic
1	Bus Cable (Mandatory)	2322301303	Y3 Bus Cable(12AWG, TC-ER cUL,2m,BK-RD-GN)	
		2322401303	Y3 Bus Cable(12AWG, TC-ER cUL,4m,BK-RD-GN)	
2	AC Branch Extension Cable (Optional)	2334075242	Y3 Br. Ext-Cable(18AWG, TCER cUL,2m,BK-RD-GN)	
3	Bus Cable End Cap (Mandatory)	2060700007	3/4-wire Bus Cable End Cap	
4	Bus Cable Y-CONN Cap (Optional)	2061702007	Bus Cable Y-CONN Cap	
5	Bus Cable Unlock Tool (Mandatory)	2352000001	Y Bus Cable Unlock Tool	
6	DC Male Connector Cap (Optional)	2060401006	DC Male Connector Cap (MC4)	
7	DC Female Connector Cap (Optional)	2060402006	DC Female Connector Cap (MC4)	
8	AC Connector (Male) (Optional)	2300531032	25A AC Male Connector (EN,3-wire)	
9	AC Connector (Female) (Optional)	2300532032	25A AC Female Connector (EN,3-wire)	
10	DC Extension Cable (Optional)	2310310274	1m DC Extension Cable (MC4)	
		2310360214	2m DC Extension Cable (MC4)	
11	Energy Communication Unit (Optional)	—	ECU-R (ECU-C)	

Warranty Card

Yotta DPI-208 and DPI-480 Microinverter & Energy Communication Unit Warranty Card

[illegible]