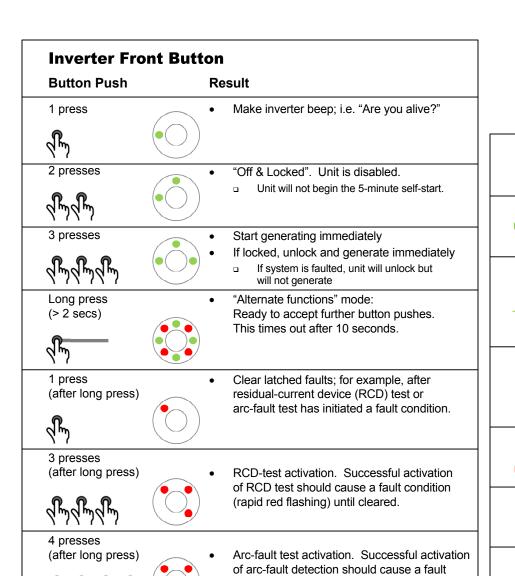
# **Quick Start Guide**

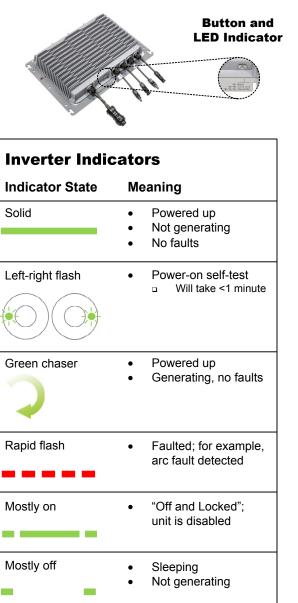


## **Buttons and Indicators**

# Button State Meaning Discover Initial state. Discover Once pressed, a dark blue color indicates the Gateway is in the process of discovering inverters. It will return to the initial state with an empty serial number list if no inverters are found. A dark red color indicates an error was found. Examples: "signal strength is too low"; "too much background noise on circuit". The red color only clears when the user re-tries and the fault condition no longer applies. Discover Once discovery has successfully occurred, this button returns to the initial state.



condition (rapid red flashing) until cleared.



# ProHarvest 208V

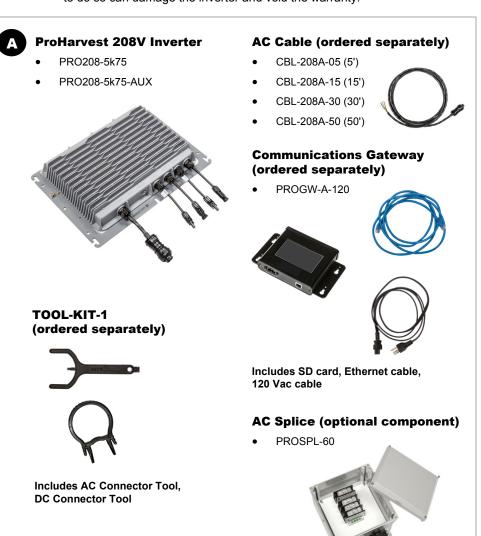
This guide provides instructions for installation and setup of the product. It assumes knowledge of features, functions, and general operation. This guide is a supplement for the purpose of expediting installation. For complete information, see the ProHarvest Installation and Safety Manual.

These instructions are for use by qualified personnel who meet all local and governmental code requirements for licensing and training for the installation of 3-phase electrical power systems with AC and DC voltage up to 1000 volts.



#### **CAUTION: EQUIPMENT DAMAGE**

- This system is to be connected to 208 Vac 3-phase wye input ONLY (three phases, neutral, ground).
- This product has no user-serviceable parts. Tampering with the product will void the warranty.
- Applying incorrect polarity to DC string inputs will result in damage. This will void the warranty.
- The Communications Gateway is for indoor use only.
- All conductors (L1, L2, L3, neutral, ground) must be connected. Neutral must be bonded to earth ground. Failure to do so can damage the inverter and void the warranty.





## **Installation Notes:**

- NEMA Type 6 rated
- Cooling is most efficient if this product is mounted vertically in shade, bolted to PV racking and with connectors pointed downward. However, any orientation is acceptable.
- Use mounting hardware sizes up to 5/16". This is the largest size that will fit the baseplate mounting slots.



## **Grounding Notes:**

- Metal enclosure must be grounded (NEC 690.43).
- AC connector provides equipment ground.
- Optional: Grounding may be achieved by adding a lay-in lug (pictured, not provided) or by using mounting bolts. These must be attached to a grounded metal structure using paint-cutting washers.







# Installation

# **Connecting to Grid**

- Remove the sealing cap using the AC connector tool.
- Connect the inverter AC cable to the AC system.

NOTE: This connector is a certified AC disconnect.

When wiring:

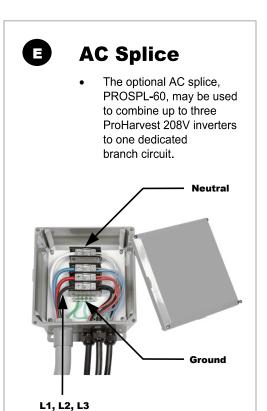
- Any colored conductor can connect to any phase (L1, L2, or L3).
- The white conductor connects to neutral.
- The green conductor connects to equipment ground.

Connect the AC receptacles as shown to the right.

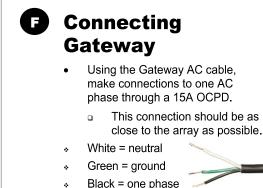
> **NOTE**: The unit is only watertight when all connectors are fully engaged.



To unmate the receptacles, see the image to the left. Insert the center pin of the AC connector tool into the hole in the connector collar. Turn the assembly.



ProHarvest 208V



#### NOTES:

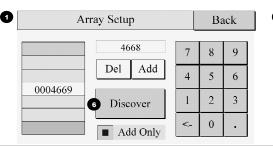
- The Gateway is for indoor use only.
- The Ethernet connection can be made at this time.

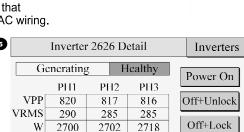




# **System Discovery**

- Connect AC power to the Gateway and inverter(s).
- On the *Inverters* tab 1, press the <Setup> button 3.
- On the Array Setup screen, press the < Discover > button 6. The Gateway will search for all ProHarvest inverters and determine if they are functional. The message onscreen will be *Healthy* (4).
- Press the < Detail > button 5 to bring up that screen. If a fault is indicated, check the AC wiring.





8120

207.880

2 Array Summary 7 Inverters Gateway

B AC SD NET HIQ 9 Power On

10 Off+Unlock

Off+Lock

Clear Fault

1/1 Inverters Visible

1 Locked Off

0 W / 246445.5 kWh

Diag

Total W

Total KWH





# **Connecting the PV Strings**

- Disconnect AC power from the inverter.
- Remove connector end caps.
- Connect 2 PV strings as shown to the right.
  - Secure the DC wiring to the array racking.
  - To unmate the receptacles, use the DC connector tool as shown to the far right.

### NOTES

- The front button will indicate an error at this stage. This is normal. See the Buttons and Indicators section.
- The unit is only watertight when all connectors are fully engaged.
- This connector is a certified DC disconnect. Additional disconnects are not needed.
- For PV string lengths, stacking, and so on, see the installation manual. Uneven string lengths are acceptable.
- This product is rated for 1,000 Vdc.

#### **CAUTION: EQUIPMENT DAMAGE**

Do not reverse the DC "+" and "-" input polarities. This will damage the inverter and void the warranty.

# **Connecting the AC**

- Reconnect AC power to the Gateway and inverter(s).
- The system will wait 5 minutes and then perform a self-test. (See the Buttons and Indicators section for self-test indications.)
- It will then begin generating power.

#### Congratulations! The installation is complete.

Select the Array tab to enter the Array Summary screen. See item 2 in G.

- Press the **Off+Unlock**> button **10** to unlock the power generation function on any previously locked inverters.
- Press the **Power On** button **9** to omit the 5-minute delay if desired.
- Select the *Inverters* tab (7) to return to the previous screen.

Gateway communication status is shown with the indicators AC, SD, NET, and HIQ (8). These are normally shaded green and indicate that the system is in good condition. One or more will turn red when a fault occurs. See the installation manual for troubleshooting.

