

ProHarvest AC Splice Installation Instructions

Purpose

This document details correct installation of the ProHarvest AC Splice, part number PROSPL-60. Up to three ProHarvest 208V or ProHarvest 480V inverters may be installed on a dedicated branch circuit.

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

Mounting

- Can be mounted to any surface using appropriate hardware
- Installation locations allowable for conduit entry shown in the diagram on the next page
- May be used as a pull-box to supply a second AC splice



Warning: Shock Hazard

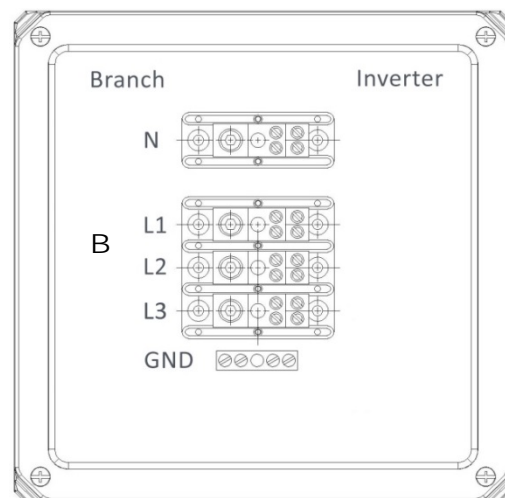
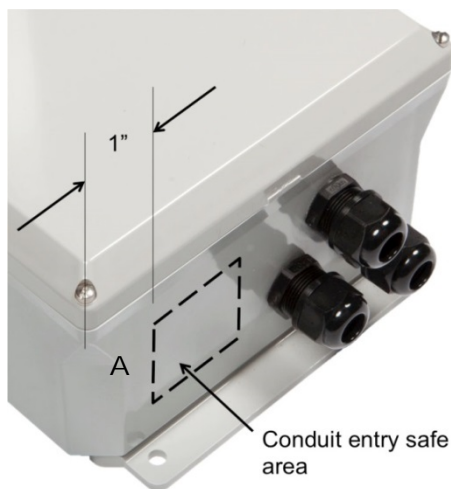
This equipment may be energized from multiple sources. Verify that terminals are de-energized prior to servicing.



IMPORTANT:

- This product must be installed in compliance with the NFPA National Electrical Code.
- All 5 wires of each circuit (L1, L2, L3, Neutral, Ground) must be connected.
- This product is only listed for use with AC cables CBL-208A-XX and CBL-480A-XX.

Installation

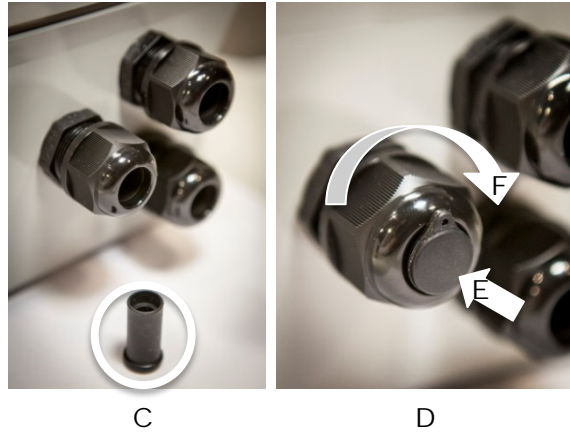


To install the ProHarvest AC Splice:

1. Mount the enclosure as appropriate.
2. Drill conduit entry hole within the area indicated in A.
3. Terminate the earth ground wire in the grounding terminal block.
4. Terminate the branch circuit conductors in the designated side of the terminal block. (See B.) Tighten these to the torque values shown in the table on the next page.

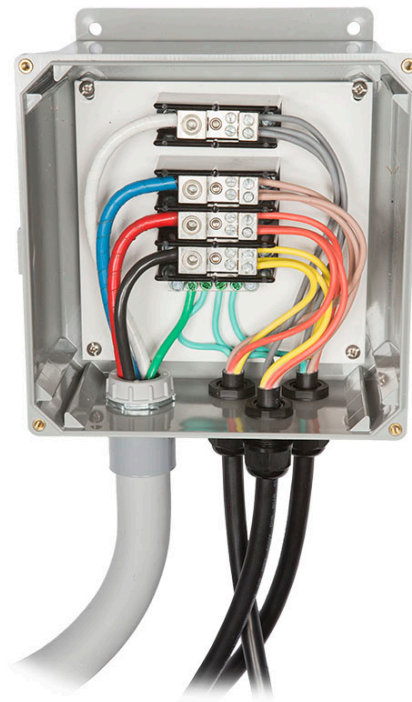
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5. Insert the inverter AC cables through the cable glands. Ensure at least 1/8" of the black outer cable jacket protrudes inside the enclosure. Tighten the gland nut to ensure weather sealing. Any unused glands should be sealed to maintain weather tightness.
6. The ProHarvest inverter is supplied with caps sealing the MC4 connectors before use as shown in C. One of these may be used to seal unused AC Splice glands. (See D.) Insert the cap into the gland fully as shown in E. Tighten the gland collar until the cap is secure as shown in F.



7. Connect up to three of the AC cables to the inverter terminal blocks. Tighten them to the torque values listed in the table below.
 8. Place the cover onto the enclosure. Tighten the 4 screws securely.
- Installation is complete.

Rating	Value
Electrical	
AC voltage	208 to 600 V _{AC} 3-phase
AC frequency	50/60 Hz
Max branch current	60 A _{AC}
Terminal configuration	3 phase + neutral
Conductors	Copper only, 90 °C
<ul style="list-style-type: none"> • Branch circuit • Inverter • Equipment Ground Conductor (EGC) per NEC 250.122 	8-2/0 AWG 12 AWG 10 AWG
Terminal torque	
<ul style="list-style-type: none"> • Branch • Inverter 	120 in-lb 20 in-lb
Physical	
Dimensions (W x H x D)	213 x 213 x 132 mm (8.4 x 8.4 x 5.2")
Max allowable sizes for branch circuit conduit	2"
Environmental rating	NEMA4, watertight, outdoor
Operating temperature range	-40 °C to +65 °C



Example wired AC Splice

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Date and Revision

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