

HiQ Solar AC Splice Installation Instructions



Version 1.02

This guide refers to correct installation of ACSPL-40.

Warnings

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

Mounting Considerations

- 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 feed a second AC splice

Installation Procedure

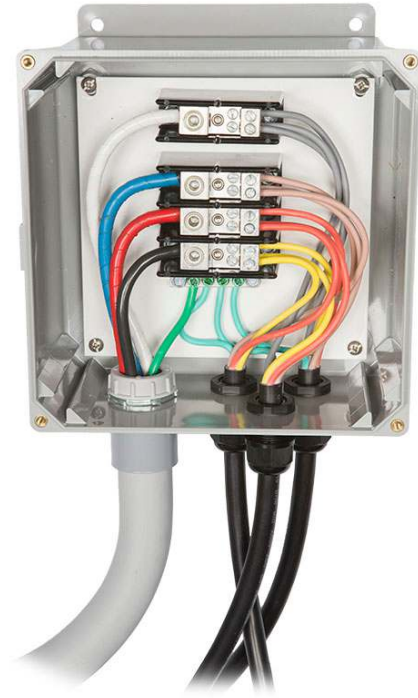
1. Mount the enclosure as appropriate
2. Drill conduit entry hole within the area indicated below
3. Terminate the earth ground wire in the grounding terminal block
4. Terminate branch circuit conductors in the designated side of the terminal block and torque to the values shown in the table on the next page
5. Insert the inverter AC whips through the cable glands. Ensure at least 1/8" of black outer cable jacket protrudes inside the enclosure. Tighten gland nut to ensure weather sealing. Any unused glands should be sealed to maintain weather tightness¹.
6. Connect up to 3 of the AC whips to the inverter terminal blocks and torque them to the values listed in the table on the next page
7. Place cover onto enclosure, tighten the 4 screws securely

¹ The TrueString inverter is supplied with caps sealing the MC4 connectors before use. One of these may be used to seal unused AC Splice glands as shown. Insert the cap into the gland fully, and then tighten the gland collar until the cap is secure.



ACSPL-40 Specification Table, Diagrams

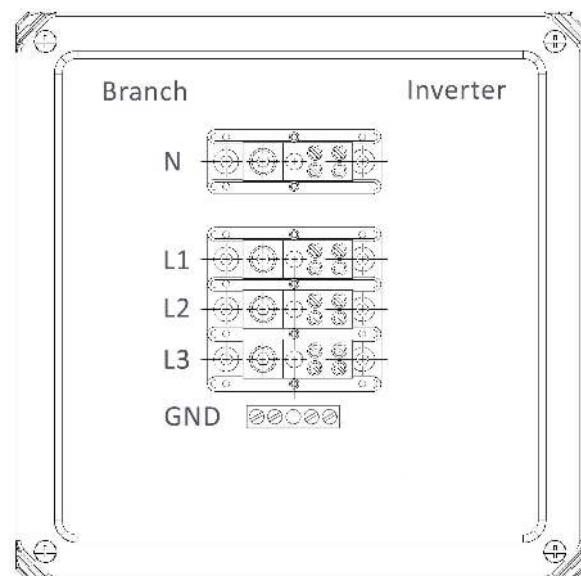
Rating	Value
Electrical	
AC voltage	208 to 600 V _{AC} 3-phase
AC frequency	50/60 Hz
Max branch current	40 A _{AC}
Terminal configuration	3 phase + neutral
Conductors <ul style="list-style-type: none"> • Branch circuit • Inverter • Equipment Ground Conductor (EGC) per NEC 250.122 	Copper only, 90 °C 8-2/0 AWG 14-4 AWG 10 AWG
Terminal torque <ul style="list-style-type: none"> • Branch • Inverter 	120 Lb.-in 20 Lb.-in
Physical	
Dimensions (W x H x D)	213 x 213 x 132mm (8.4 x 8.4 x 5.2")
Maximum allowable sizes for branch circuit conduit	2"
Environmental rating	NEMA4, Watertight, outdoor
Operating temperature range	-40 °C to +65 °C



Example wired AC splice



Conduit entry safe area



Terminal layout