

Replacing an Inverter Module of the Three Phase Residential and Commercial PCE

Note: SolarEdge replaceable inverter modules are mechanically interlocked with the DC Switch Disconnect, located within the DC Safety Unit section.

1. Turn OFF the inverter ON/OFF switch, and wait until the LCD indicates that the DC voltage is safe (<50V), or wait five minutes before continuing to the next step.

**WARNING!**

If you cannot see the inverter panel, or if a malfunction is indicated on the LCD panel, wait five minutes for the input capacitors of the inverter to discharge.

2. Isolate the AC to the inverter by turning OFF and locking out the adjacent "AC Isolator" or circuit breaker of the distribution panel.
3. Turn OFF the DC Safety Unit section "PV Array DC Isolator".
4. Open the DC Safety Unit section cover: Release the four Allen screws and remove the cover.
5. Open the inverter module cover as described in *Removing the Inverter Cover* in the Installation Guide.
6. If applicable, release the AC cable interlock:
 - a. Open the machine screw securing the interlock lugs to the DC Safety Unit enclosure.
 - b. Draw the blue trimmer line down into the DC Safety Unit section.

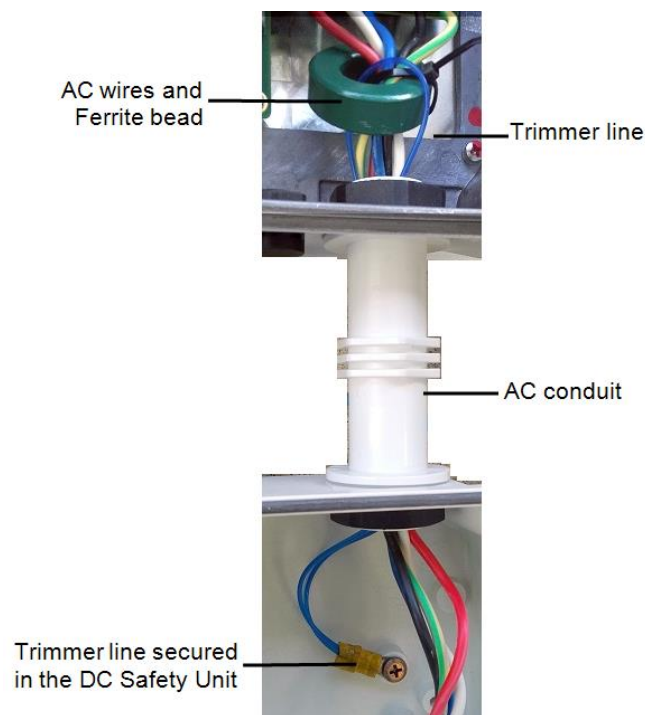


Figure 1: Interlock

7. Disconnect the DC and AC cables from the inverter module and draw these down into the DC Safety Unit section. Keep the AC Ferrite bead aside.
8. Disconnect and withdraw any additional wires that may be connected to the inverter module, including:
 - Antenna cable from the communication board
 - LAN cable
 - RS485 cables
 - DRM0 or RRCR cables

9. Release the replaceable inverter module from the inverter by unscrewing the two conduit nuts in the inverter securing the Safety Switch to the inverter.

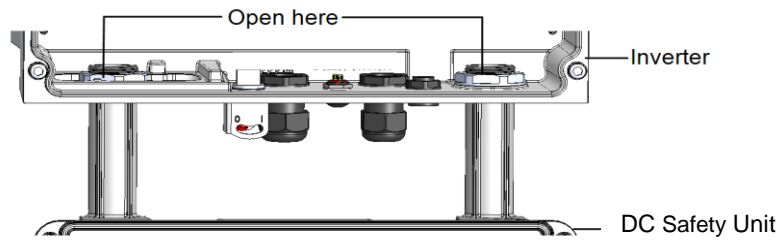


Figure 2: Releasing the clips

10. Remove the screws securing the inverter module to the mounting brackets and lift the inverter module from the mounting bracket.

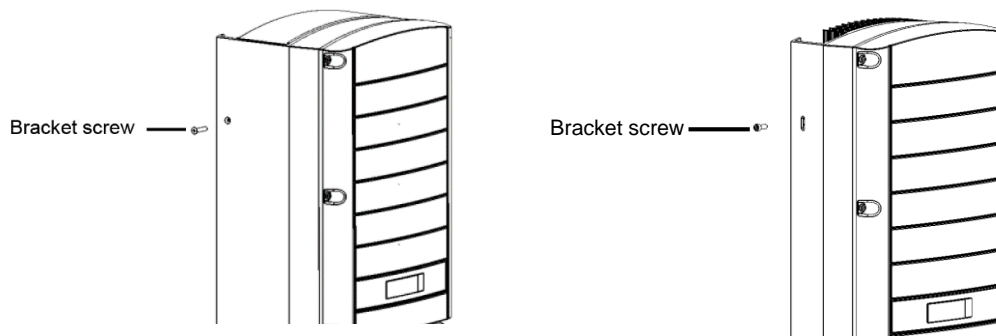


Figure 3: Inverter mounting bracket screw



NOTE

If you remove the old inverter module and do not immediately install a new one, then:

- a) Fit insulated terminals to the ends of each of the AC and DC wires.
- b) Seal the conduits with 28mm rubber tube caps to prevent water ingress, secure each cap with a nylon cable tie.
- c) Lock the DC Safety Unit in the OFF position using a lock on the switch.
- d) Lock the AC Isolator or MCB adjacent to the inverter with a suitable lock.



Figure 4: Conduit caps fitted and secured

11. Place the new inverter module on the mounting brackets and secure it using the screws.
12. Insert the AC and DC wires from the DC Safety Unit section up into the openings in the inverter module.
13. Fasten the nuts securing the inverter module to the DC Safety Unit.
14. Reconnect the AC and DC cables from the DC Safety Unit section into the inverter module AC and DC terminals. Thread the AC cables through the Ferrite bead.
15. Feed the interlock lines through the AC conduit to the DC Safety Unit and secure the lugs with the machine screw to one of the captive screws in the DC Safety Unit.
16. Close the inverter module and DC Safety Unit section covers.
17. Perform the commissioning steps as described in Commissioning the Installation in the Installation Guide.