

SolarEdge TerraMax™ Inverter AC/DC fuse replacement - Support kit manual

This manual describes the procedure for replacing the SolarEdge TerraMax Inverter AC/DC fuse.

Revision history

- Version 1.1, March 2024 – Changed name to TerraMax
- Version 1.0, January 2024 – Initial release.

Kit contents

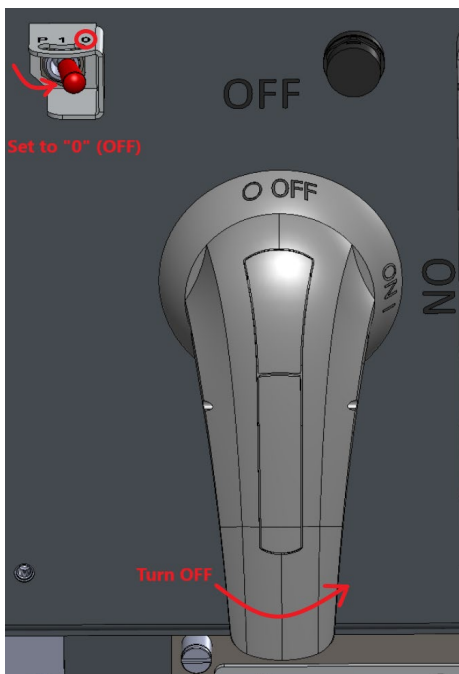
- SolarEdge TerraMax Inverter AC/DC fuse PN FLD-3PH-OR-ACDC-FUSE.

Required tools

- Torque screwdriver
- 5mm hex bit
- Voltmeter

Before you begin

1. Set the P/1/0 switch to "0" (OFF).
2. Turn the DC ON/OFF Switch to the OFF position.



3. To lock the DC Switch, pull the white tab out away from the blue handle and insert a padlock through one of the holes.
4. Lock the padlock.



DC ON/OFF switch safety padlock

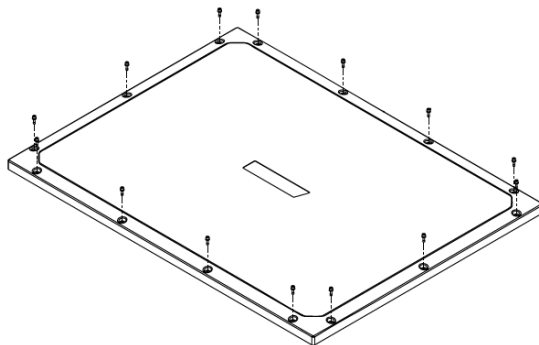
5. Disconnect AC power to the inverter by turning OFF the circuit breaker in the power distribution panel.
6. Wait at least five minutes for the DC Voltage inside the inverter to drop to a safe level.
7. As an additional safety precaution, lock the power distribution panel.

Remove the cover

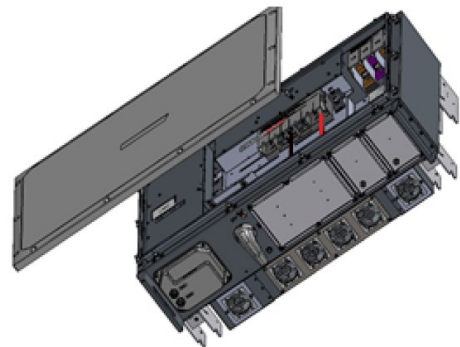
NOTE

The inverter cover assembly is too big for one person to handle safely. SolarEdge recommends that two people remove and handle the cover assembly.

To remove the inverter cover, use a screwdriver with a 5mm hex bit to release the screws holding the cover in place.



Inverter Cover Assembly

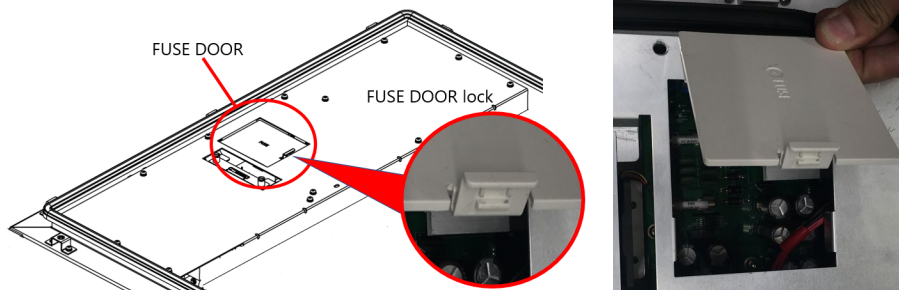


WARNING!

Before doing any maintenance work on the inverter, test for safe AC and DC voltages.

Remove the burnt-out fuse

1. Locate the FUSE DOOR fitted in the Internal left cover.
2. Release the door lock and lift up the FUSE DOOR. Make a note of the orientation. Keep the FUSE DOOR for re-assembly.



Removing the FUSE Door

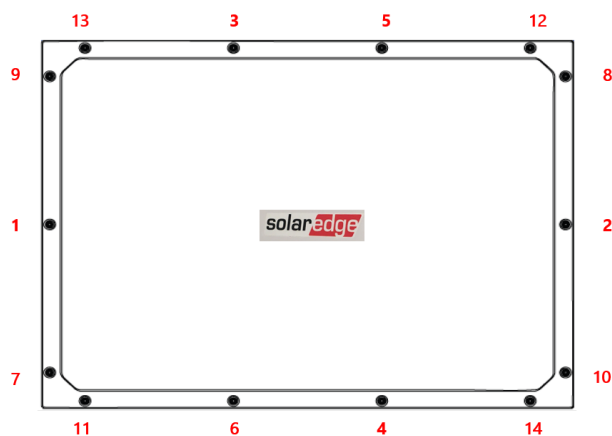
3. Locate and remove the burnt-out fuse.

Install the replacement fuse

1. Insert the new AC/DC FUSE.
2. Keeping the correct orientation, attach the FUSE Door.
3. Click the door lock into place.

Reattach the cover assembly

1. Place the cover assembly in position and, using a torque wrench with a 5mm hex bit, tighten the screws to a torque of 3.9N·m (34.5lbf-in).
2. Tighten the screws in the following sequence:



Screw tightening sequence

Turn on the power

3. Unlock the power distribution panel and turn ON the AC circuit breaker/s.
4. Remove the padlock and turn the DC Switch ON.
5. Set the P/1/0 switch to "1" (ON).