

SolarEdge Three-Phase Commercial Inverter and Three-Phase Inverter with Synergy Technology – Replacing DC Fuses with Neutral Links – Support Kit Manual

Revision history

- Version 1.0, January 2024 – initial release

Kit contents

- SolarEdge Neutral links PN: FLD-3PH-NEUTRAL-LINK (36 links per kit)

Required tools

- Fuse extraction tool



- Phillips screwdriver
- 5mm Allen wrench

Fuse replacement – Three-phase commercial inverter

The fuses in the Three-phase commercial inverter are in the DC Disconnect (DCD) unit.

To replace the fuses

1. Set the 0/1/P switch at the bottom of the inverter to “0” (OFF).
2. Wait at least five (5) minutes for the DC voltage to drop to a safe level (<50V).
3. Turn the switch on the cover of the DCD unit to OFF.
4. Disconnect AC power to the inverter by turning OFF the circuit breakers at the distribution panel.
5. Using the 5mm Allen wrench, unscrew the screws in the cover of the DCD unit.
6. Carefully pull the cover away horizontally before lowering it.

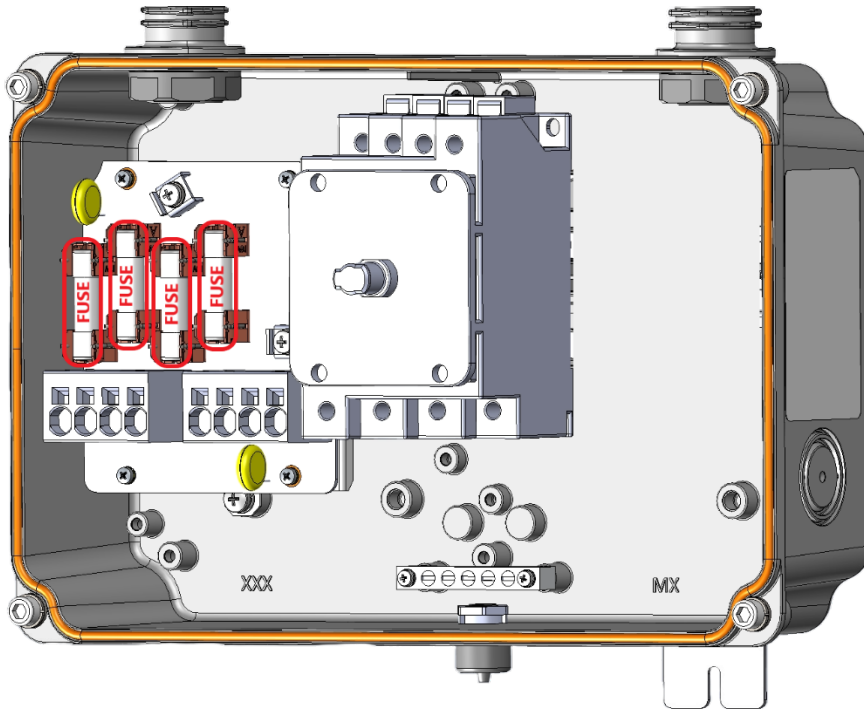


CAUTION!

- When removing the cover, make sure not to damage the internal components. SolarEdge will not be held responsible for any components damaged because of incorrect cover removal.
 - Use a voltmeter to measure the AC and DC voltages. The AC voltage must be 0V and the DC voltage must be <50V.
7. Using a dedicated fuse extraction tool, carefully remove all the fuses.

**CAUTION!**

Failure to use a dedicated fuse extraction tool may cause damage to the equipment and void the unit's warranty.



8. Carefully insert solid neutral links in place of each fuse.
9. Put the DCD unit cover in place and, using the 5mm Allen wrench, fasten the screws.
10. Re-apply AC power to the inverter by turning ON the circuit breakers at the distribution panel.
11. Turn the safety switch on the cover of the DCD unit ON.
12. Set the P/1/0 switch of the inverter to "1" (ON).

Fuse replacement – Three-phase inverter with Synergy technology

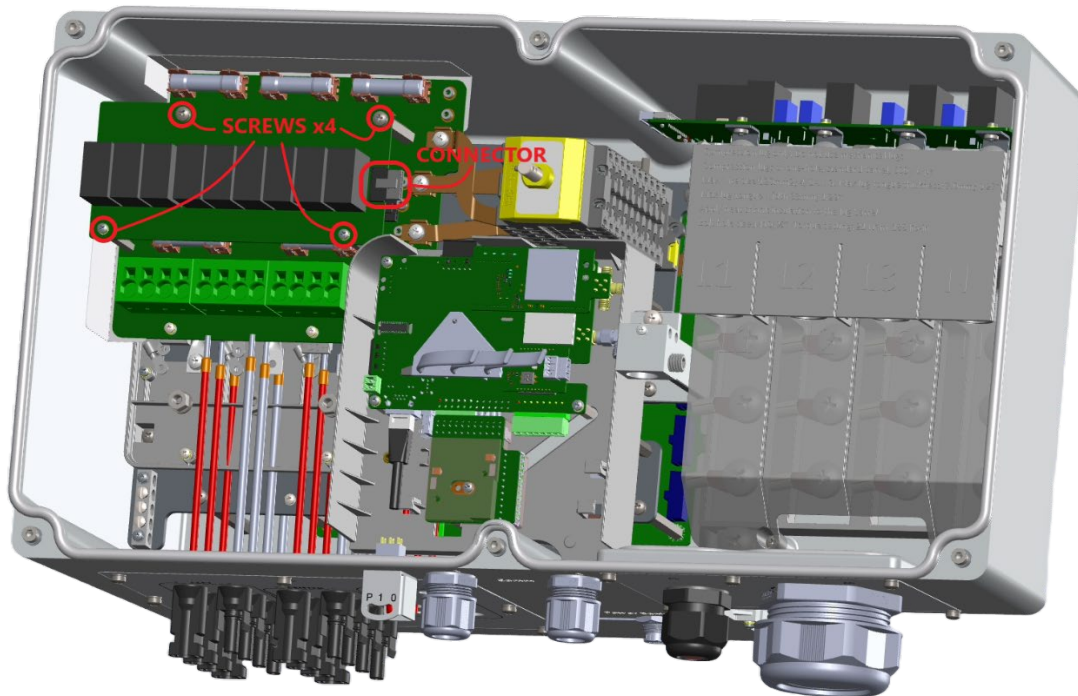
The fuses in the Three-phase Inverter with Synergy technology are in the Synergy Manager.

To replace the fuses

1. Set the 0/1/P switch at the bottom of the inverter to "0" (OFF).
2. Wait at least five (5) minutes for the DC voltage to drop to a safe level (<50V).
3. Turn the safety switch on the cover of the Synergy Manager to OFF.
4. Disconnect AC power to the inverter by turning OFF the circuit breakers at the distribution panel.
5. Using the 5mm Allen wrench, unscrew the screws in the cover of the Synergy Manager.
6. Carefully pull the cover away horizontally before lowering it.

CAUTION!

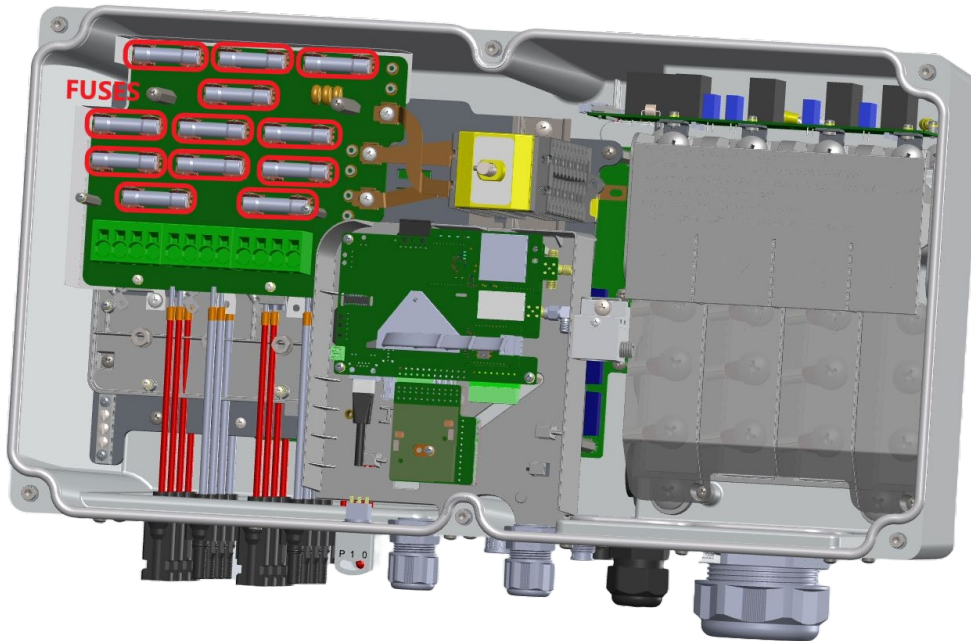
- When removing the cover, make sure not to damage the internal components. SolarEdge will not be held responsible for any components damaged because of incorrect cover removal.
 - Use a voltmeter to measure the AC and DC voltages. The AC voltage must be 0V and the DC voltage must be <50V.
7. Disconnect the connector on the right-hand side of the surge protection device (SPD board).
 8. Using a Phillips screwdriver, remove the four screws securing the SPD board.



9. Move the SPD board aside to expose the fuses.
10. Using a dedicated fuse extraction tool, carefully remove all the fuses.

CAUTION!

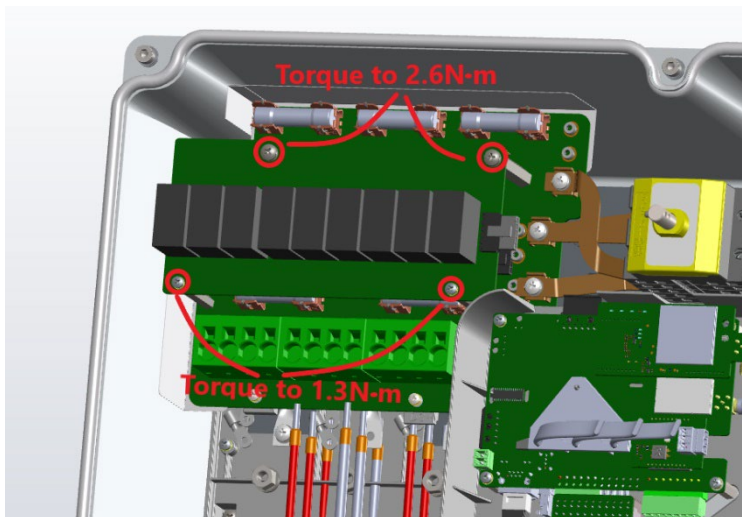
- Failure to use a dedicated fuse extraction tool may cause damage to the equipment and void the unit's warranty.



11. Carefully insert solid neutral links in place of each fuse.
12. Insert the screws to secure the SPD board and using the Phillips screwdriver, tighten the top screws to a torque of 2.6N·m and the bottom screws to a torque of 1.3N·m.

**CAUTION!**

Tighten the two upper screws to the correct torque. Failure to do so may cause the SPD to malfunction.



13. Re-connect the connector at the right-hand side of the board.
14. Put the Synergy Manager cover in place and using the 5mm Allen wrench, fasten the screws.
15. Re-apply AC power to the inverter by turning ON the circuit breakers at the distribution panel.
16. Turn the safety switch on the cover of the Synergy Manager ON.
17. Set the P/1/0 switch of the inverter to "1" (ON).