Support Kit

Replacement of AC Fuses in Three Phase Inverters with Synergy Technology

Compliant with IRA Requirements

Version 1.1

June 2025

MAN-01-01233-1.0

About

This Support Kit provides instructions for replacing the AC fuse board (PN: FLD-3PH-SU-PCB-FUSE) in the units of the Three Phase Inverters with Synergy Technology applicable to PN xSESUK-xxxxIxxxx.

Revision history

Version	Date	Description
1.1	June 2025	Updated fuse plate.
1.0	January 2025	Initial release date.

Required equipment

- Adjustable pliers
- Allen (Hex) wrench
- Screwdriver set (Phillips and standard flat-head screwdrivers)
- Torque screwdriver

Kit Contents

SolarEdge xxxx PN: FLD-3PH-SU-AC-FUSE-XXXX) kit contains the following items:

- Fuse board and cover
- Dedicated grip tool for the AC connector
- M3 x 8 screws - 3 units
- Spacers - 4 units
- Cable ties - 4 units

Removing the inverter cover

To remove the inverter cover:

1. Turn **OFF** the P/1/0 switch.
2. Turn **OFF** the DC Safety switch.
3. Turn **OFF** the main circuit board AC switch. Make sure there is no AC/DC voltage in the inverter.

WARNING

After turning OFF the switch, wait at least five minutes for the DC capacitors to decrease to a safe level before removing the front panel.

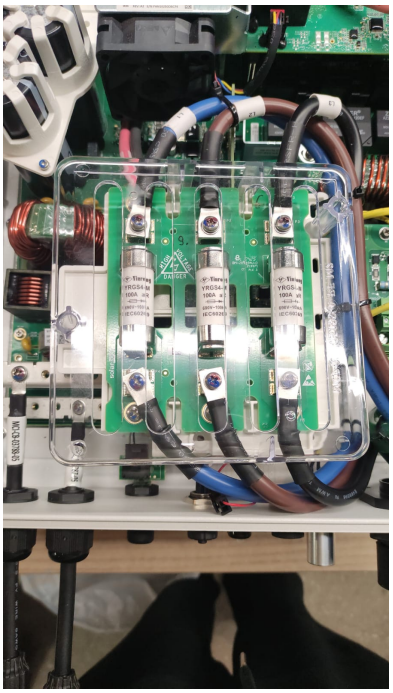
4. Remove the Allen screws on the inverter cover and carefully slide the cover horizontally before lowering it.

CAUTION

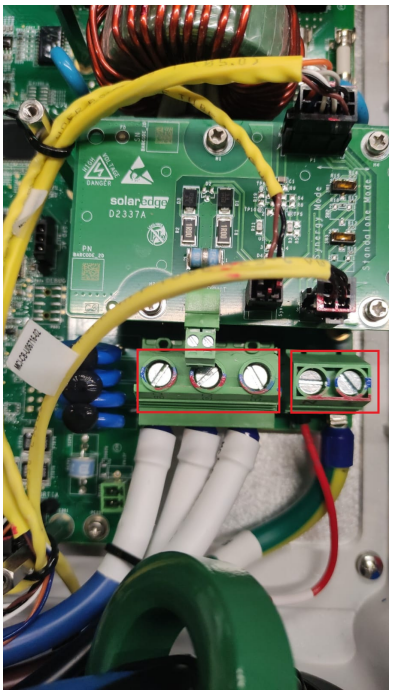
When removing the inverter cover, make sure not to damage the internal components. SolarEdge will not be held responsible for any components damaged as a result of negligent removal of the cover.

Remove the fuse board

1. Gently pull off the plastic cover from the fuse board.



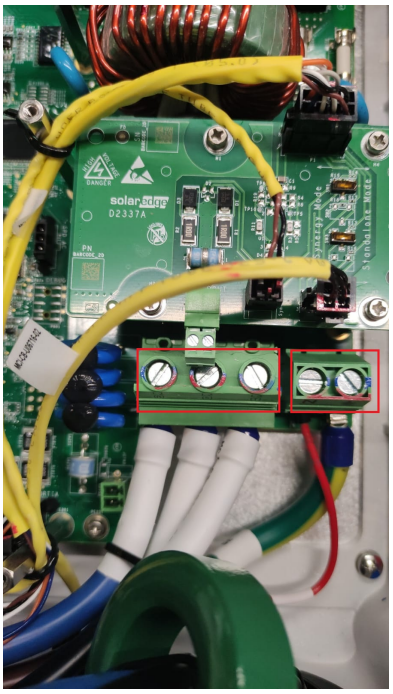
2. Remove the 4 x screws from the fuse board using a Phillips screw driver.
3. Remove the screws for the AC, Neutral and Ground terminals.



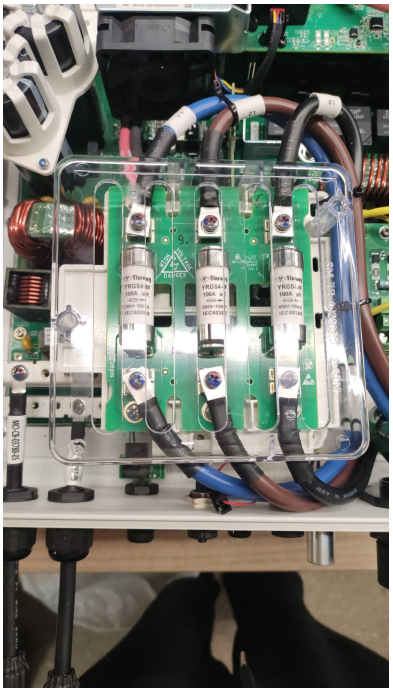
4. Disconnect the AC cable from the AC plug.

Replace fuse board

1. Connect the AC cable to the plug and tighten it with a torque screwdriver to a torque of 2.2N•m.
2. Connect the AC wires to the AC terminal (L1, L2, L3, N, G).



3. Place the fuse board over the 4 spacers and fasten the four screws using a Phillips screwdriver.
4. Fasten the fuse board to a torque of 1.1N•m using a torque screwdriver.
5. Position the fuse board cover over the three spacers and gently push it into place.



6. Carefully place the cover on the inverter and secure all six screws using an Allen key.

> **NOTE**
>
> You must correctly reinstall the inverter cover before turning ON the AC power.

7. Turn **ON** the AC and DC power.
8. Switch the toggle to the **1(ON)** position on the P/1/0 switch to turn ON the inverter.