

# Replacement of AC to DC Fuses in Three Phase Inverters with Synergy Technology P/N: SExxK-xxxxlxxxx

This guide explains how to replace the AC to DC fuses in the Three Phase Inverter with Synergy Technology P/N: SExxK-xxxxlxxxx.

## Revision History

Version 1.0 (January 2021)

## Kit Contents

- 10Fuses

## Required Tools

- 4 mm Allen torque wrench
- Torque Phillips screwdriver
- 3 mm flat head screwdriver

## Removing the Synergy Manager Cover

→ To remove the Synergy Manager cover

1. Switch the ON/OFF/P switch of the Synergy Manager to OFF and wait 5 minutes for the internal capacitors to discharge.

### WARNING!



The Synergy Manager cover should be opened only after switching the inverter ON/OFF/P switch located at the bottom of the Synergy Manager to OFF. This disables the DC Voltage inside the inverter. Wait five minutes before opening the cover. Otherwise, there is a risk of electric shock from energy stored in the capacitors.

### AVERTISSEMENT!

*Ne pas ouvrir le couvercle de l'onduleur avant d'avoir coupé l'interrupteur situé en dessous de l'onduleur. Cela supprime les tensions CC et CA de l'onduleur. Attendre cinq minutes avant d'ouvrir le couvercle. Sinon, il y a un risque de choc électrique provenant de l'énergie stockée dans le condensateur*

2. Turn-off the DC Disconnect Switch on the front cover of the Synergy Manager (only applicable for models with DC Disconnect Switch).
3. Disconnect AC to the inverter by turning-off the inverter circuit breakers on the distribution panel.
4. Remove the six Allen screws on the front cover of the Synergy Manager and remove the cover.

### CAUTION!



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

## Replacing the AC to DC Fuses

→ To Replace the AC to DC Fuses:

1. Remove the upper cover of the AC terminal block (see *Figure 1*).
2. Locate the AC to DC fuses (see *Figure 1*).

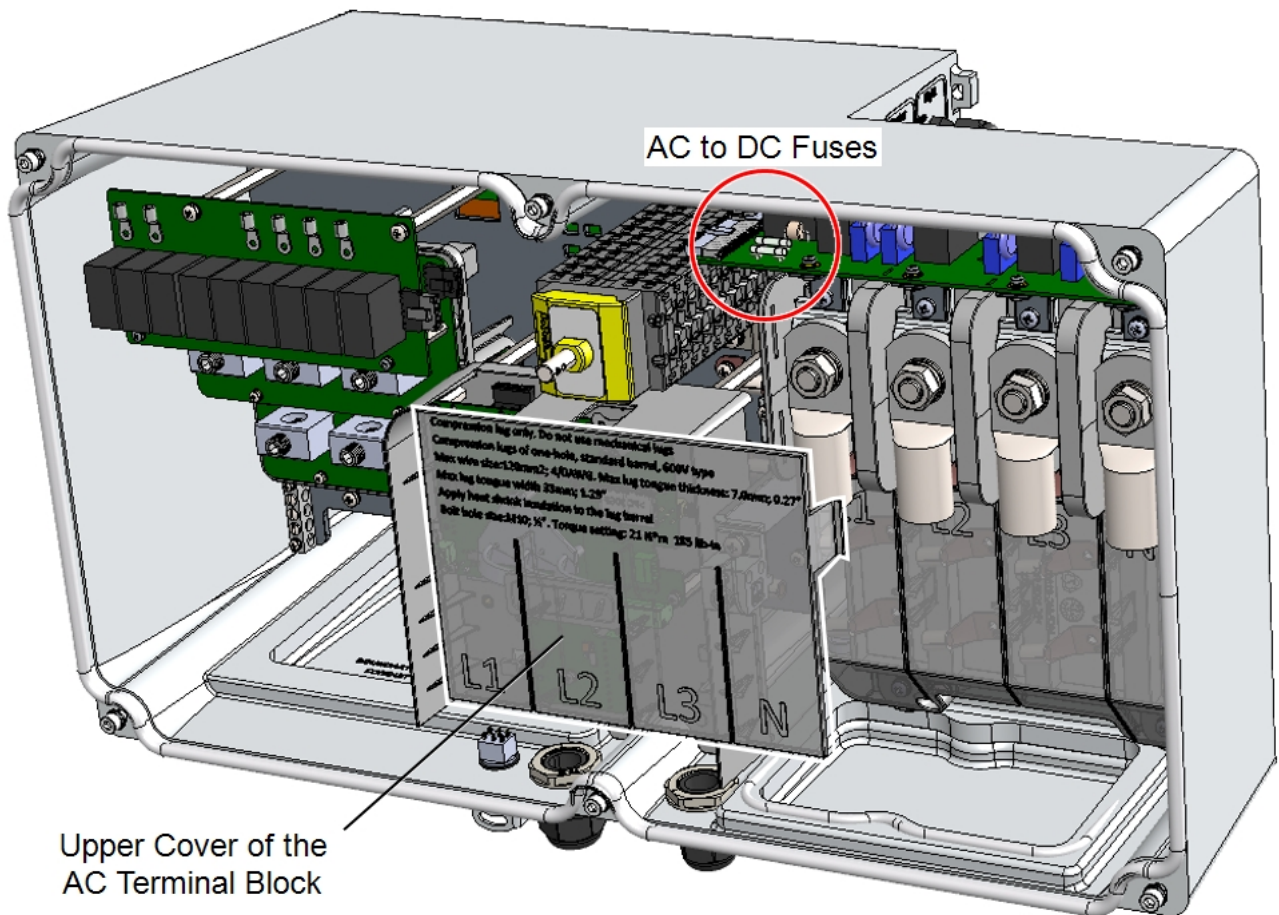


Figure 1: Location of AC to DC Fuses

3. Remove the four screws securing the AC SPD board to the AC bus-bars. For easy access to the AC/DC fuse, slightly pull-out the AC SPD board (see *Figure 2*).

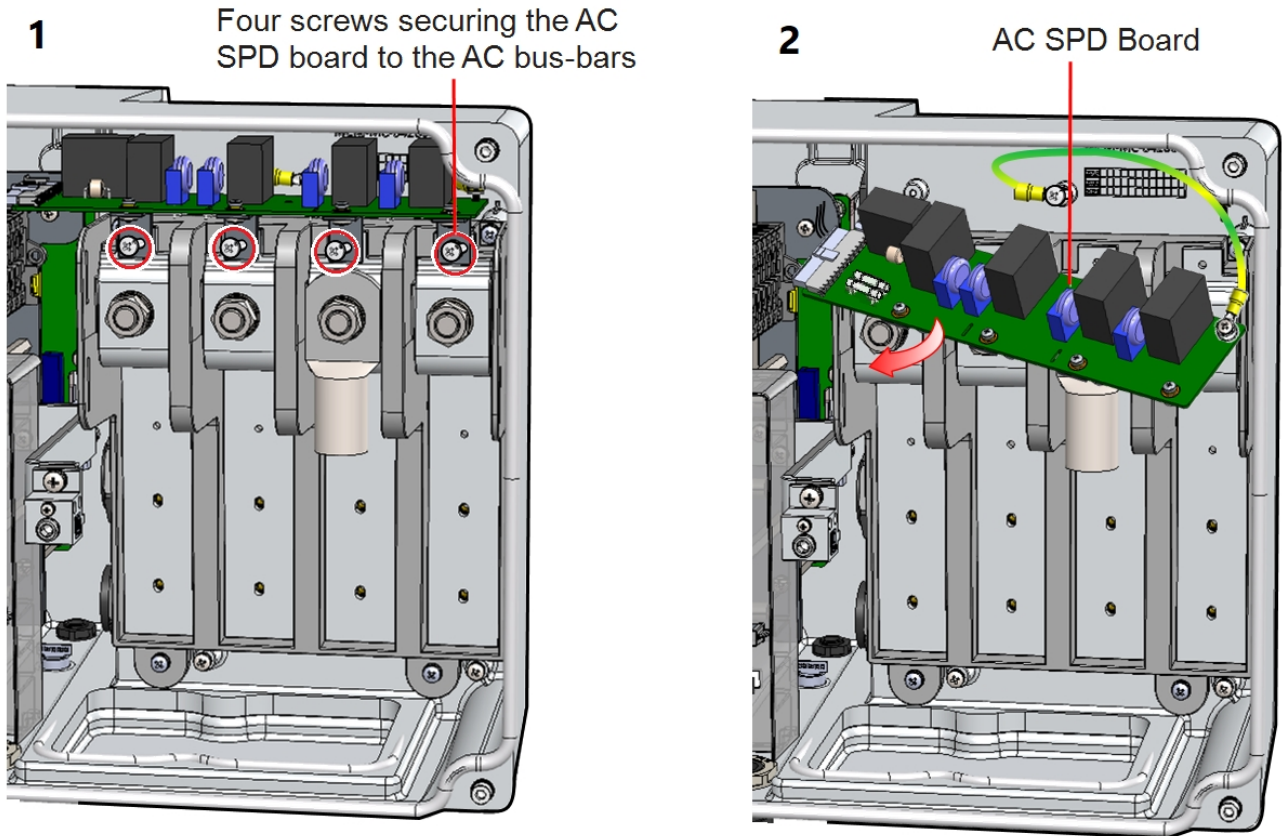


Figure 2: Removing the AC SPD board

4. Remove the AC to DC fuses from the fuse holders and insert the replacement fuses. Make sure that the replacement fuses are tightly seated inside the holders.
5. Install the AC SPD board to the AC bus-bars. Fasten the four screws to a torque of  $2.6 \text{ N}\cdot\text{m}$  ( $1.91 \text{ lb}\cdot\text{ft}$ ).
6. Install the upper cover of the AC terminal block.
7. Close the Synergy Manager cover and fasten the six Allen screws to a torque of  $3.5 \text{ N}\cdot\text{m}$  ( $2.6 \text{ lb}\cdot\text{ft}$ ).