Technical Note

Replacement of External Fan Assembly in Three Phase Inverters

Version 1.1

December 2024

MAN-01-00731-1.1

Revision history

Version	Date	Description
1.1	December 2024	Added a warning
1.0		Printed version

Overview

The Three Phase inverter has two fans: an internal and an external accessible fan, referred to as an external fan for the following part numbers.

Name	PN
Three Phase Inverter	SExxK-xxxxIxxxx
Synergy Unit	SESUK-xxxxIxxxx

This procedure describes how to replace the external fan of the Three Phase Inverter.

WARNING

Ensure the AC is turned OFF before removing the fan. Failure to do so may result in damage to or failure of the unit.

The following image displays the location of the External Fan Assembly of a Three Phase Inverter and a Three Phase Inverter with a DC Safety Unit.

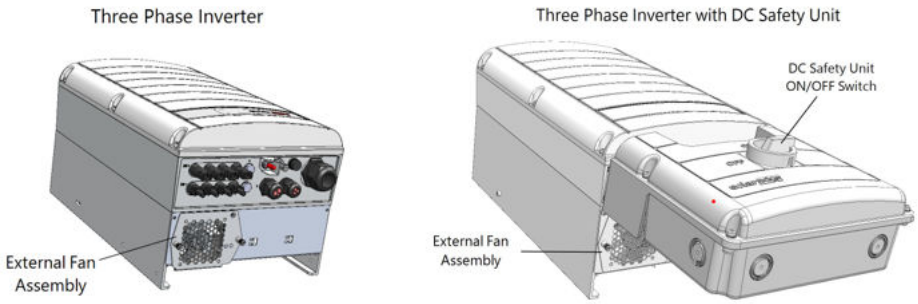

Figure 1: Location of the External Fan Assembly

Removing the existing external fan assembly

1. Turn the P/1/0 switch of the inverter to OFF (0) and wait for five minutes for the DC voltage inside the inverter to drop to a safe value before proceeding to the next step.

WARNING

Wait five minutes for the input capacitors of the inverter to discharge.

WARNING

Attendez cinq minutes pour que les condensateurs d'entrée de l'onduleur soient déchargés.

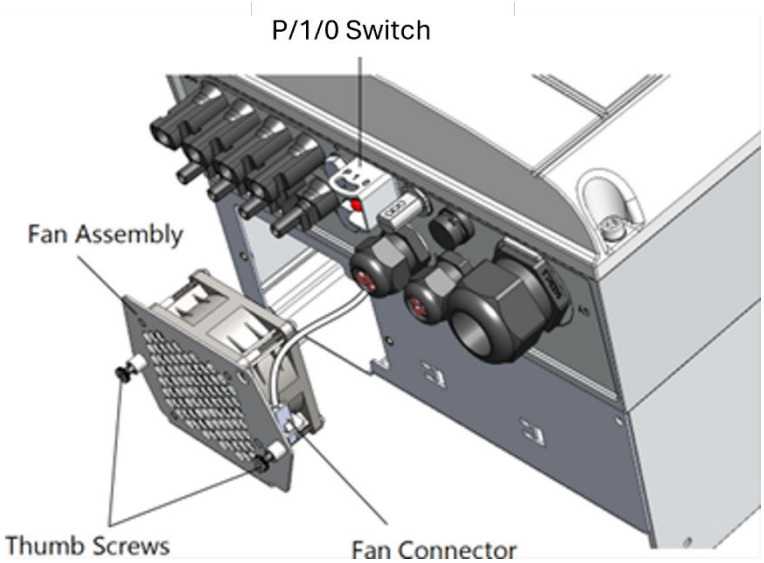

Figure 2: Removing the Fan Assembly

2. Turn OFF the ON/OFF Switch on the DC Safety Unit, displayed in Figure 1, (if applicable), and the AC breaker on the distribution panel.
3. Unscrew and remove the two Thumb Screws securing the Fan Assembly to the inverter.
4. Pull out the Fan Assembly from within the inverter.
5. Disconnect the Fan Connector and remove the Fan Assembly from the inverter.

Installing the replacement fan assembly

1. Plug the Fan Connector to the replacement fan.
2. Place the fan assembly into the inverter and fasten the two thumb screws.
3. Power up the inverter and check the **Fan OK** status is displayed on the SetApp status screen, as displayed below.