



RS485 Surge Protection Kit for Single Phase HD-Wave Inverter - Installation Guide

This document describes how to install the RS485 Surge Protection Kit in the SolarEdge single phase HD-Wave inverter.

Kit Contents

- Surge protection board
- Standoff



Installation Procedure

- 1** Turn the inverter ON/OFF switch to OFF. The LCD display should indicate that the string voltage is in the safety voltage range (< 50V).
- 2** Disconnect the AC to the inverter by turning OFF the circuit breakers on the distribution panel.
- 3** Open the cover's six Allen screws and carefully remove the cover.
- 4** Do one of the following:
 - For a new RS485 connection installation, disconnect the 6-pin connector from the surge protection board, and connect the RS485 wires to the G, A, and B terminals to the 6-pin connector (see Figure 1).

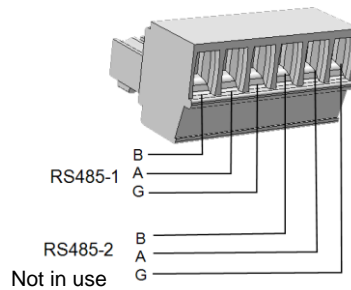


Figure 1: RS485 6-Pin Connector

- If RS485 connection is already installed in the inverter, disconnect the 6-pin connector from the RS485 socket on the inverter communication board (see Figure 2), leaving the RS485 wires intact.

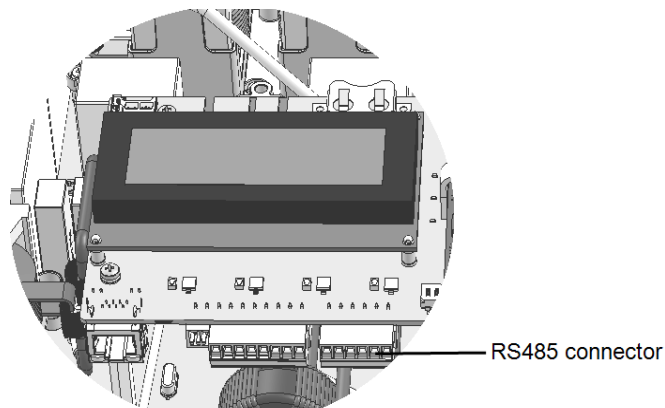


Figure 2: RS485 Connection in the inverter

- 5 Replace the middle bolt that connects the power board to the chassis with the standoff supplied with the kit (see Figure 3).

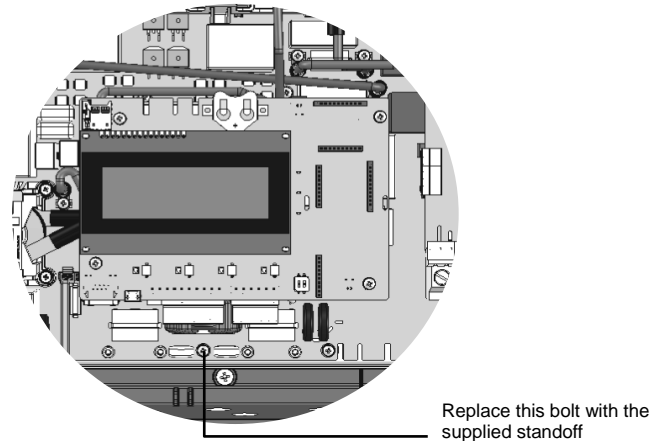


Figure 3: Bolt that connects the power board to the chassis

- 6 Insert the surge protection board's connectors into the communication board socket, applying light pressure (see Figure 4). Make sure the connectors are firmly inserted.
- 7 Align the surge protection board on the standoff and fasten board using the removed bolt.

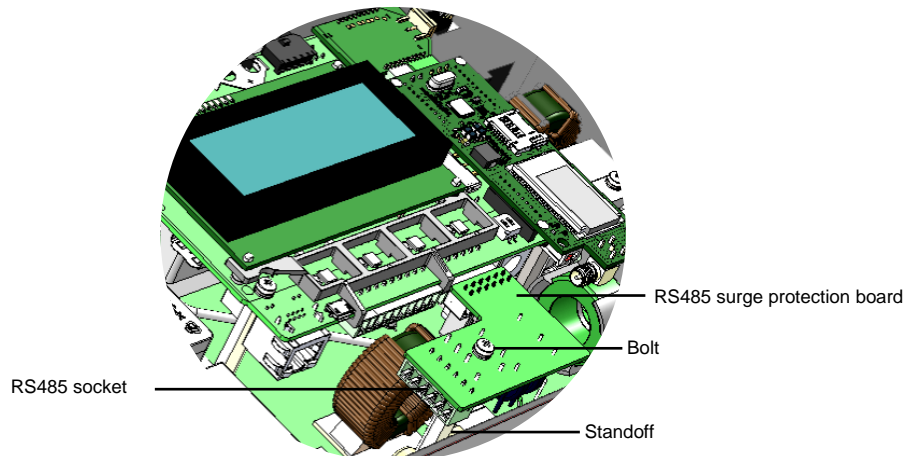


Figure 4: RS485 surge protection board installed

- 8 Connect the 6-pin connector with the wires to the RS485 socket on the surge protection board.
- 9 Close the inverter cover.
- 10 Turn ON the AC to the inverter.
- 11 Turn the inverter ON/OFF switch to ON.