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](image1)

   - 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](image2)
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](image)

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](image)

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.