

Home Hub 3 Ph Inverter Bracket Support kit

This manual describes how to replace the Inverter Bracket. P/N FLD-INV-BR

Kit Contents

Home Hub 3 PH Inverter Bracket Support kit.

Required Tools

- Torque wrench
- PH2 Philips screwdriver
- Cordless screwdriver
- Small spirit level

Turning OFF the Inverter

1. Turn the ON/OFF/P Toggle Switch OFF (0).



Figure 1: ON/OFF/P toggle switch OFF

- Disconnect AC power to the inverter by turning OFF the main circuit breakers or disconnecting the fuses in the power distribution panel and wait for five minutes for the DC Voltage inside the inverter to drop to a safe level before preceding to the next step. Lock the power distribution panel and keep the key in your pocket.
- 3. Turn OFF the battery.
- 4. Use a 4 mm Allen hex bit to loosen all 10 screws in the following sequence. Turn all the screws half a turn and remove the cover.



Figure 2: remove Cover

5. Keep the cover and screws for reassembly.

Disconnecting the Cables from the Inverter

1. Before disconnecting any cables, make sure they are properly marked. If not, mark each cable with its position.

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2. Disconnect all the DC MC4 connectors, (PV strings). Carefully fold the cables and store them in a safe place.



Figure 3: disconnect PV strings

3. Loosen the two DC cables cable gland nuts. Allow the nuts to slip down the DC cables.



Figure 4: remove the DC cable gland nuts

4. Use a PH 2 Philips screwdriver to loosen the screw holding the DC Connection Box in place. Do not remove the screw.





Figure 5: loosen DC Connection Box holding screw

- 5. Use a Flat screwdriver to release the DC Connection Box snap.
- 6. Pull the DC Connection Box out of the inverter.
- 7. Slide the DC Connection Box over the DC cables to expose the cable shoe fixing nuts.



Figure 6: move the DC Connection Box

- 8. Use a 10 mm A/F socket wrench to remove the nuts holding the DC cables in place. Keep the nuts and washers for reassembly.
- 9. Pull the DC Connection Box, (with the DC cables still inside), away from the inverter. Carefully fold the DC cables and DC Connection Box and store them in a safe place.





Figure 7: remove the DC Connection Box with the DC cables still attached

- 10. Loosen the communication cable gland nut. Allow the nut to slip down the communication cable.
- 11. Disconnect the CAN bus connector.
- 12. Pull the CAN bus connector and the communication cable out through the gland. Carefully fold the communication cable and store them in a safe place.



Figure 8: remove the CAN bus connector

- 13. Use a flat screwdriver to loosen the five screws clamping the AC cables. Do not remove the screws.
- 14. Disconnect the AC three-phase cables.
- 15. Disconnect the Neutral cable.
- 16. Disconnect the PE grounding cable.





Figure 9: cable color and position

- 17. Loosen the AC cables cable gland nut.
- 18. Lift the AC Ferrite over the cables and remove them. Keep the AC Ferrite for reassembly.



Figure 10: AC Ferrite

19. Pull the AC cable gland nut with the cable still inside away from the inverter. Carefully fold the AC cable and nut and store them in a safe place.



Figure 11: remove the AC cable gland nut

Removing the Damaged Inverter Bracket

1. Locate and remove the screw holding the bottom of the inverter to the wall. Keep the screw for reassembly.





Figure 12: remove holding screw

- 2. Locate the two bracket screws and use a PH2 Philips screwdriver to remove the screws. Keep the screws for reassembly.

Figure 13: remove two bracket screws

4. Use a cordless screwdriver to remove the two screws holding the bracket to the wall. Keep the screw for reassembly.



Figure 14: remove two wall bracket screws

5. Discard the damaged Inverter bracket.

Installing the Replacement Inverter Bracket

1. Remove the new Inverter bracket from the packaging.

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2. Mount the new Inverter bracket onto the wall using the same holes and screws. Make sure the new bracket is level before tightening the screws.



Figure 15: ensure the bracket is level

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The Home Hub 3 Phase inverter is too heavy for one person to handle safely. SolarEdge recommends two people to handle the inverter.

- 3. Lift the inverter from the sides and hang it on the bracket.
- 4. Align the two indentations in the inverter enclosure with the two triangular mounting tabs of the bracket and lower the inverter until it rests on the bracket evenly.
- Insert the two screws through the outer heat sink fins on both sides of the inverter and into the bracket. Use a PH 2 Philips screwdriver and a torque wrench to tighten the screws to a torque of 4 N*m / 35.4 lbf*in.



Figure 16: mount inverter & insert bracket screws

6. Insert the screw holding the bottom of the inverter to the wall.

Reconnecting the Inverter

- 1. Push the AC cable through the AC cable gland.
- 2. Slide the AC Ferrite over the cables.
- 3. Replace the AC cable gland nut and tighten it to a torque of 2.8 N*m / 24.8 lbf*in.
- 4. Reconnect the PE grounding cable.

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- 5. Reconnect the Neutral cable.
- 6. Reconnect the AC three-phase cables.
- 7. Push the CAN bus connector through the communication cable gland.
- 8. Replace the communication cable gland nut and tighten them.
- 9. Reconnect the CAN bus connector.
- 10. Reconnect the DC cables, insert the nut and washers, and use a 10 mm A/F socket wrench and a torque wrench to tighten the nuts to a torque of 8 N*m / 70.8 lbf*in.
- 11. Push the DC Connection Box into position until you hear a click and make sure the snap is securely locked.
- 12. Use a PH 2 Philips screwdriver and a torque wrench to tighten the DC Connection Box holding screw to a torque of 2.2 N*m / 19.5 lbf*in.
- 13. Replace the DC cable gland nuts and tighten them.
- 14. Reconnect all the DC MC4 connectors, (PV strings).

Remounting the Cover Assembly

- 1. Place the cover in position and insert the 10 screws.
- 2. Use a 4 mm hex bit and a torque wrench to tighten the 10 screws to a torque of 4 N*m / 35.4 lbf*in.
- 3. Tighten the screws in the following sequence:



Figure 17: screw tightening sequence

- 4. Unlock the power distribution panel and turn ON the main AC circuit breaker or connect the fuses.
- 5. Turn the ON/OFF/P Toggle Switch of the Home Hub 3 Ph Inverter to ON (1).



Figure 18: ON/OFF/P toggle switch ON