

# Replacing a Single Phase HD-Wave Inverter

This installation guide describes the procedures for replacing a Single Phase HD-Wave Inverter.

## Kit Contents

- Spacer for adjusting the Safety Switch wall bracket

## Required Tools

- 4mm hex key
- Phillips screwdriver
- 3mm (small) Flat screwdriver

## Removing the Inverter Cover

Use the following procedure to remove the inverter cover.

→ To remove the inverter cover

1. Switch the inverter ON/OFF/P switch to OFF.
2. Enter SetApp and in the **Commissioning** screen, select **Maintenance>Standby Mode>Enable**.
3. Wait five minutes for the capacitors to discharge.
4. Switch the Safety Switch to OFF.
5. Disconnect the mains AC supply to the inverter by turning OFF the circuit breakers on the distribution panel.
6. Release and loosen the six Allen screws that hold the inverter cover in place.
7. Carefully pulling the cover horizontally, tilt the top of the cover toward you and gently lower the cover and remove it.

## Replacing an Inverter

### Disconnecting the Old Inverter

→ To replace the inverter

1. Open the Safety Switch cover: Release the four Allen screws and remove the cover.
2. Disconnect the DC plugs from the inverter.
3. Disconnect the AC wires from the AC terminal block and remove the Ferrite bead.

4. Disconnect the DC and AC cables from the Safety Switch.
5. Disconnect the wires connected to the inverter or between the inverter and the Safety Switch:
  - Antenna cable from the communication board
  - DC and AC wires in the Safety Switch
  - Grounding cable
6. Disconnect the inverter from the Safety Switch by opening the clip that secures the Safety Switch to the inverter. Carefully place a screwdriver between the clip and the enclosure and pull the clip.

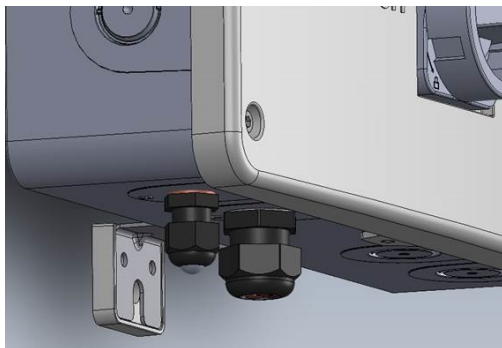


7. Remove the screws securing the inverter to the mounting brackets and lift the inverter from the mounting bracket.

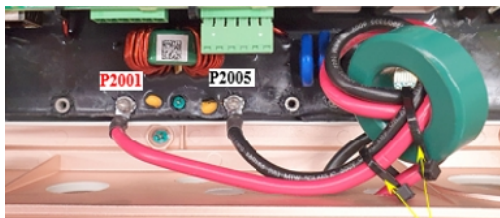
## Connecting the Replacement Inverter

→ To connect the replacement inverter

1. If the replacement inverter has larger heat sink fins than the original inverter:
  - a. Loosen the screw that secures the Safety Switch to the wall bracket.
  - b. Insert the supplied spacer between the bracket and the wall to reposition the Safety Switch.



- c. Tighten the screw to secure the Safety Switch to the wall bracket.
2. Place the new inverter on the mounting bracket and secure it using the screws.
3. Insert the wires from the Safety Switch into the openings in the inverter and the Ferrite bead.
4. Thread the DC cables through the Ferrite bead as indicated in the image and secure the cables to the Ferrite bead using two cable ties.



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5. Reconnect the DC cables to the power board. Connect the red cable to **DC+ P2001** and the black cable to **DC- P2005** and fasten them with the screws.
6. Fasten the clip securing the Safety Switch to the inverter.

7. Reconnect the remaining cables: Follow the instructions given in the sections *Installing the Inverter* and *Connecting the AC and the Strings to the Safety Switch* in the [Single Phase Inverter with HD-Wave Technology with SetApp Configuration Installation Guide](#).
8. Close the inverter and covers.
9. Perform the commissioning steps as described in the section *Activating, Commissioning and Configuring the System* using the Inverter SetApp - Inverter Extended Version. This information is also located in the [Single Phase Inverter with HD-Wave Technology with SetApp Configuration Installation Guide](#).