

Instructions for CS-100 J1772 cable replacement

This guide contains important instructions you must follow during the installation and maintenance of the Enphase CS-100.

Safety and advisory symbols

	DANGER: This indicates a hazardous situation, which, if not avoided, will result in death or serious injury.
	WARNING: This indicates a situation where failure to follow instructions may be a safety hazard or cause equipment malfunction. Use extreme caution and follow instructions carefully.
	NOTE: This indicates information essential for optimal system operation. Follow instructions carefully.

Safety instructions

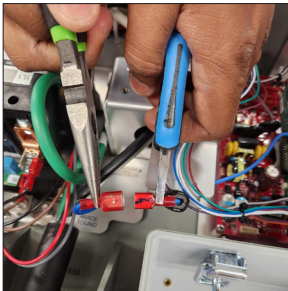
	WARNING: Risk of electric shock. Always de-energize the AC branch circuit before servicing.
	NOTE: Using unapproved attachments or accessories could result in damage or injury.

Tools required

- T15 Torx screwdriver
- Torque driver with a standard bit
- Allen key (M4 and 3/16 in)
- Two wrenches for strain relief gland - adjustable, or 1.65 in (41.9 mm)

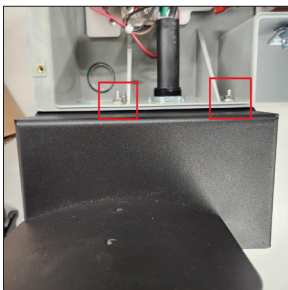
Steps to remove the cable

1. Turn the power off.
2. Use a T15 Torx screwdriver to remove the two screws on the left and unlatch the hidden latch on the enclosure underside to open the door.
3. Ensure that no indicator LEDs are illuminated on the PCBA.
4. Disconnect the blue pilot communication wire from PCBA.



5. Disconnect the black L1 wire from the contactor 2T1 terminal and the white L2 wire from the contactor 4T2 terminal using an M4 Allen key.
6. Disconnect the green (ground) cable wire from the vehicle ground lug using an M4 Allen key.
7. Loosen the gland strain relief with wrenches.

- ✓ **NOTE:** Uninstall the cable cradle metalwork for wall-mounted CS units for easier access to the strain relief gland.



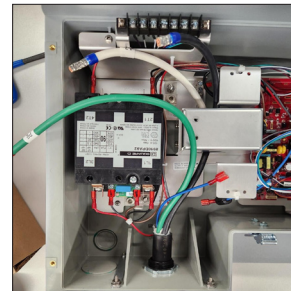
8. Carefully pull the cable through the strain relief and remove the wires from the enclosure.

Steps to install the cable

1. Ensure the power is turned off and no LEDs are illuminated on the PCBA.
2. Ensure that the branding on the new cable matches the branding on the front overlay of the CS-100.
3. Remove the Sealing Nut from the gland strain relief and route the cable through the nut before inserting the wires into the strain relief.
4. Route the cable wires through the strain relief gland and into the enclosure. Feed the cable through until you see about 0.5-1 in of the cable jacketing.
5. Thread the sealing nut onto the strain relief gland and tighten to a torque of 60 in-lb.



WARNING: The cable should not be able to spin or move by hand once tightened down.



6. Connect the green ground wire to the frame. **DO NOT** route this wire through the CCID coil. Tighten to a torque of 40 in-lb.
7. Connect the black (L1) wire to the 2T1 contactor terminal and the white (L2) wire to the 4T2 contactor terminal. Tighten the terminals to a torque of 60 in-lb or to the specification on the contactor, if provided.

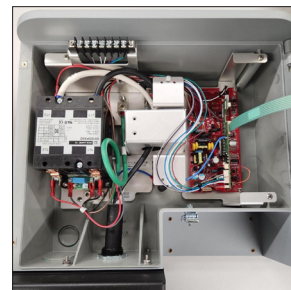


WARNING: Route the L1 and L2 cable wires through the CCID coil.

8. Connect the blue pilot communication wire to the PCBA.
9. Turn on the breaker after connecting the conductors.
10. Ensure that the ribbon cable from the front door has not disconnected from the PCBA.
11. Close and secure the front door with the screws and latch.
12. Verify that the charging station functions as intended using either an EV or a tester.



NOTE: When power is first applied, the unit conducts a self-testing sequence to check the CCID, ground monitor, and other internal circuitry.



Revision history

REVISION	DATE	DESCRIPTION
140-00504-01	July 2024	Initial release.

