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Maintenance Instructions

VersiCharge Ultra 50™

50 kW DC fast charger

usa.siemens.com/versicharge

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Important safety instructions and specifications. Save these instructions.

This document contains important maintenance instructions for the VersiCharge Ultra 50™ electric vehicle fast charger model: US2:VSCULT50SAG, 50kW DC

For assistance with operation of the charger, contact the charger operator or Siemens Customer Support.

Identifying symbols



CAUTION



RISK OF ELECTRIC SHOCK



CAUTION

The VersiCharge Ultra 50 fast charger must be installed and serviced only by qualified electrical personnel.



CAUTION

In the event of a circuit breaker trip, the charger must be inspected by a Siemens-certified service agent before the charger is re-energized.

Operating temperature:

-35° to 50°C / -31° to 122°F

Maximum ambient temperature:

55°C /131°F

Weather rating:

NEMA Type 3R

General exterior maintenance (GEM)

The following maintenance can be performed by the owner/user. All other servicing is to be conducted by qualified service personnel.

If there is any damage to the charger, contact your supplier.

It is recommended to perform general maintenance at least every six months, depending on the environment. In harsher environments, general maintenance should be performed more often.

General exterior maintenance

Regular cleaning is recommended to avoid accumulation of debris/dust/dirt on or around the unit. Wipe surfaces with a soft cloth dampened with water, or use an alcohol based cleaner for harder to remove marks.

Do not spray with high pressure cleaning hoses or use abrasive chemicals.

Snowfall areas

Regularly remove snow build up if present in front of the radiator panels.

This should be checked daily in areas with high snowfall.

See the next page for a maintenance checklist.



General maintenance checklist

Maintenance checklist

1. Surfaces

Check that surfaces are clean and clear from dirt or dust.

2. Metalwork

Check the metalwork for corrosion.

3. Interface panel

Check the panel for signs of damage and confirm it is operating correctly. To check operation, turn the charger off and then on and it runs a self-check.

4. Plug holders

Ensure that there is no debris inside the plug holders.

5. Plug plates

Check the stainless steel plug plates and use appropriate lubricant (non-oil based) on the hinges, if required. Contact your supplier if damaged.

6. Charging plugs

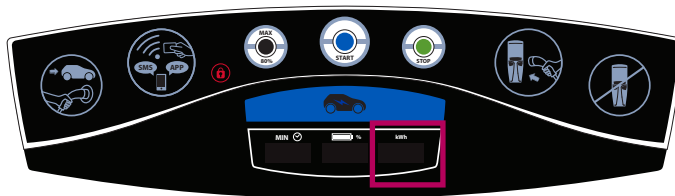
Check the plugs for accumulation of debris and inspect the contact pins for corrosion. If corrosion is present, contact your supplier.

7. Radiator

Regularly check the radiator. Gently hose through the slots in the radiator panel to remove any debris. Check the radiator for signs of leaks, and if any leaks are present, contact your supplier.

8. LED security lights

Check the functionality of the security lights. To check functionality, place a hand over the area indicated in the image, and confirm that the security lights turn on.



9. Security screws

(Not shown on image)

Check that all security screws on the plastic are fitted and tight.

Preventative maintenance

As a preventative measure, coolant replacement is recommended every five years.

Note: You should also replace coolant if there is a coolant leak, or after a repair of the cooling system.

To obtain a coolant kit, contact your local representative or regional Siemens office.

CAUTION

Contains ethylene glycol.

Do not use the coolant servicing kit for any purpose other than use on Siemens liquid cooling systems.

Important

Ensure that:

- The charger is electrically isolated before you begin any work on the cooling system.
- Coolant used for 60:40 mixture is 100% ethylene glycol concentrate. Contact Siemens for specific coolant before use.
- Follow the coolant manufacturers instructions regarding health and safety when working with ethylene glycol based coolant.
- Do not exceed two bars of pressure, or hold down the pressure relief valve, while using the coolant servicing kit.
- Do not leave the coolant servicing kit unattended under pressure, and ensure that all pressure is released before refilling or storing.

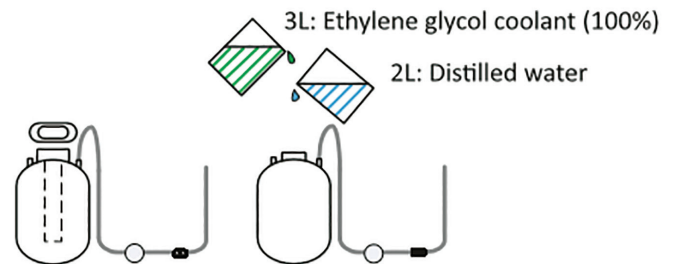
Change the coolant

CAUTION

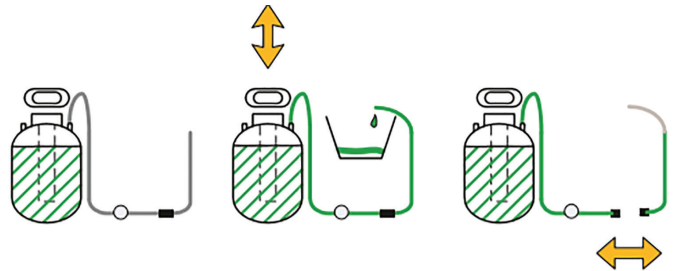
Ensure that you keep all coolant fittings clean and free from dirt or grit.

1. Isolate power to the charger.

2. Mix the coolant.

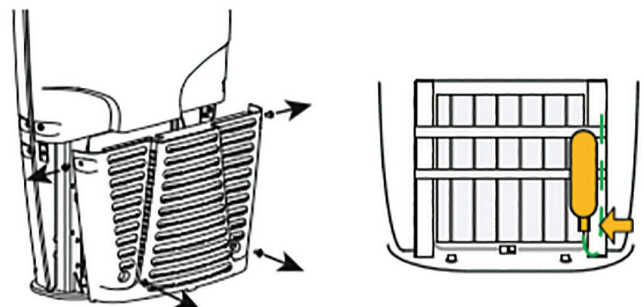


3. Pour the coolant into the pumping kit and then bleed the air.



4. Remove the back radiator panel and disconnect the expansion bag.

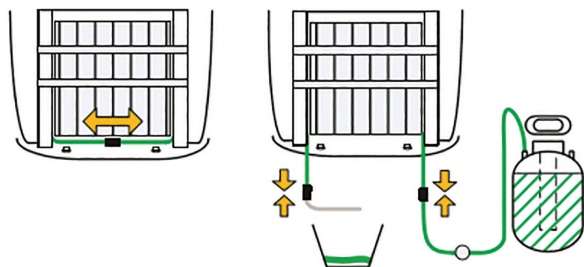
Note: To disconnect the expansion bag, twist the fitting 90° and pull apart.



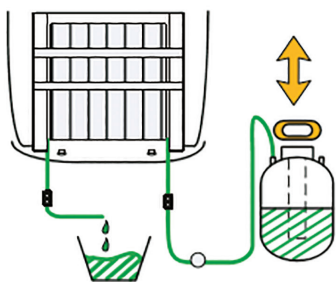
Preventative maintenance

5. Connect the coolant kit to the charger.
Note: To do this, complete the following:

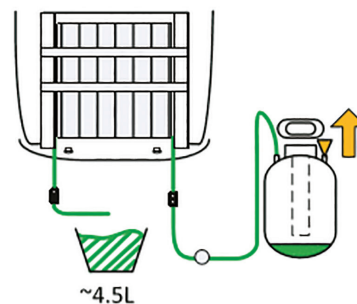
- Disconnect the quick connect fitting under the radiator; pull apart, do not twist.
- Connect the male quick connect of the charger to the female quick connect on the pumping kit.
- Connect the female quick connect of the charger to the male quick connect of the return hose on the pumping kit.



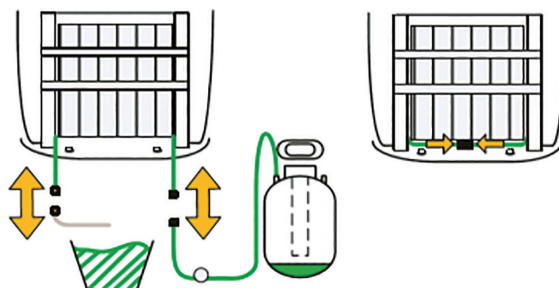
6. Change the coolant.
Note: Ensure that the return hose of the pumping kit is directed into a 5L (minimum) container.



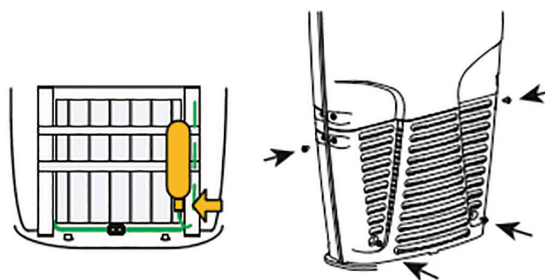
7. Pull the pressure release valve on the coolant kit (shown in yellow) to stop the coolant flow.



8. Disconnect the coolant kit and reconnect the charger cooling loop.



9. Ensure that the expansion bag is empty, then reconnect it and replace the radiator cover.



10. Reconnect power to the charger.

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