

ENGLISH

Pre-RMA testing Orion-Tr DC-DC Converters



8. Pre-RMA test form - Orion-Tr DC-DC converter

1. General

| Product, system and fault information | |
|--|--|
| Date | |
| Model Number | |
| Serial Number | |
| Date of installation (if known) | |
| Date of failure (if known) | |
| Battery type, brand name and overall capacity (if known) | |
| | |

2. Initial check

| Initial check | |
|--|-------------------|
| Deep the unit have machanical demose to its housing? | Yes, no warranty. |
| Does the unit have mechanical damage to its housing? | No. |
| Does the unit have burn marks or melting marks on its housing, or does | Yes. |
| it smell burned? | No. |
| Does the unit have mechanical or burn damage to its electrical | Yes, no warranty. |
| connectors? | No. |

3. First power up

| Power the unit up and check | |
|--|---|
| Connect the input terminals to a current limited 12, 24 or 48V power supply (depending on the model) or a battery with a DC fuse. Is there a | No. |
| Background information: A DC short circuit nearly always indicates that | polarity; no warranty. |
| the DC-DC converter has been connected to reverse battery polarity. Reverse battery polarity is not covered under warranty. | Yes, and there was no reverse battery polarity; lodge a warranty claim. |
| | The fuse is not broken. |
| For DC-DC converters with an external fuse: Remove the fuse and check the fuse for continuity. If the fuse is broken, | The replacement fuse blew, and there was reverse battery polarity; no warranty. |
| Background information: If the replacement fuse blows, the DC-DC converter has a short circuit; this is nearly always an indication that the DC-DC converter has been connected to reverse battery polarity. | The replacement fuse blew, and there was no reverse polarity; lodge a warranty claim. |
| | The fuse was broken and has been replaced. |
| For models with a remote link only: | The link was placed. |
| Check if the remote link is in place; if not, place the link. | The link was not placed and has now |
| Note: To find the location of the remote link, refer to the product manual. | been placed. |

4. Bluetooth

| Bluetooth check | |
|---|-----------------------------|
| Is the product a "Smart" product, i.e., does it have built-in Bluetooth? | Yes. |
| | No, go to step 6. |
| Is Bluetooth active, i.e., do you see the unit listed in the device list of the | Yes, go to step 5. |
| VictronConnect app? | No. |
| If Bluetooth is not active, it is unlikely to be a faulty Bluetooth module. More likely, Bluetooth has been turned off in the VictronConnect settings. | |
| To re-activate Bluetooth: | Yes, go to step 5. |
| Press and hold the "mode" button for 10 seconds to turn Bluetooth back on. | No. |
| Is Bluetooth active now? | |
| If Bluetooth is still not active, rule out the following: | |
| Are there problems with your phone or tablet? | |
| Are you within Bluetooth range? | |
| Only one phone or tablet can connect via Bluetooth at a time; is | Yes. |
| perhaps another phone or tablet already connected? | No, lodge a warranty claim. |
| Consult the product manual and the VictronConnect manual to try to resolve the Bluetooth issue. | |
| | |

5. Firmware and settings

| Update the firmware and reset the settings to default | |
|---|---|
| Connect via an interface (or Bluetooth) to the VictronConnect app and navigate to the unit. Is this possible? | Yes. |
| In case the PIN code is unknown, reset the PIN code. For information on how to do this, see the VictronConnect manual. | No, not possible; lodge a warranty claim. |
| Check if the firmware is up to date. If the firmware is not up to date, update the firmware to the most recent version using the VictronConnect app: Go to the VictronConnect settings page. On the settings page, click on the "3 dots" symbol in the top right-hand corner. Select "Product info". | Yes, the firmware has been updated. Yes, the firmware was already up to date. No, not possible to update the firmware. |
| • On the product this page, check and/or update the infliware. | |
| Save the unit's settings. File the settings under its serial number and keep the file on record for future reference. To save the settings: Go to the VictronConnect settings page. On the settings page, click on the "disk" symbol at the top. | Yes, the settings file has been saved. No, not possible to save the settings. |
| Reset all settings to default: Go to the VictronConnect settings page. On the settings page, click on the "3 dots" symbol in the top right-hand corner of the page and select "Reset to defaults". | Yes, the settings are set to default. No, not possible to set the settings to default. |

| Update the firmware and reset the settings to default | | | |
|---|--|--|--|
| | \Box No errors, go to 6. | | |
| Does the VictronConnect app display any error codes? If so, try to resolve the errors by consulting the product manual. | There were errors, but they were resolved. | | |
| Did it get resolved? | There were errors, but they were not resolved. | | |
| Write down the error number and name | Error number: | | |
| while down the chor humber and hame. | Error name: | | |

6. Functionality

| DC-DC converter functional check | | |
|---|---|-----------------------------|
| Measure the voltage on the output terminals. Do you measure a voltage | | Yes. |
| higher than 10, 20 or 40V (depending on the model)? | | No, lodge a warranty claim. |
| For models with a voltage adjustment screw only: | _ | Vac |
| Measure the voltage on the output terminals. Turn the screw. Is the | | res. |
| output voltage decreasing when turning to the left and is it increasing when turning to the right? | | No, lodge a warranty claim. |
| For Smart models only: | | Vee |
| Measure the voltage on the input terminals. Compare this to the input | | Tes. |
| voltage as indicated in the VictronConnect app. Are they both the same (a deviation of up to 1% is allowed)? | | No, lodge a warranty claim. |
| For Smart models only: | | Vee |
| Measure the voltage on the output terminals. Compare this to the output | | TES. |
| (a deviation of up to 1% is allowed)? | | No, lodge a warranty claim. |
| Connect a DC load to the output of the DC-DC converter. Can the DC- | | Yes. |
| DC converter deliver its maximum rated power to the DC load? | | No, lodge a warranty claim. |
| Connect a battery to the output terminals. Does the DC-DC converter charge the battery? | | |
| Background information: For battery charging to take place, the battery | | Yes. |
| voltage of the battery needs to be lower than the output voltage of the | | No, lodge a warranty claim |
| DC-DC converter. The battery is being charged if current flows from the DC-DC converter to the battery. This can be checked by using a DC | | |
| current clamp. | | |

7. Remarks

Provide additional fault information or add issues not already covered in earlier questions

8. RMA lodgement

| For your information purposes, provide details after lodging the RMA | |
|--|---|
| | Warranty claim. |
| RMA type: | Non-warranty repair or replacement request. |
| RMA lodgement date | |

| or your information purp | ooses, provide details after lod | ging the RMA | |
|---------------------------|----------------------------------|--------------|--|
| /ictron Energy RMA number | ər | | |
| our reference number | | | |
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