

ENGLISH

Pre-RMA testing Inverter Charger



3. Pre-RMA test form - Inverter/charger

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	
Does the unit have internal water damage or corrosion?	Yes, no warranty.
	No.
Are the internals of the unit very dirty, or is there soot, dust or oil present	Yes, no warranty.
inside the unit?	No.
Are there foreign chiests inside the unit-like screws, animals or insects?	Yes, no warranty.
	No.
Does the unit have burn marks on its internal parts, or does it smell	Yes.
burned?	No.
Does the unit have mechanical damage to any of its internal parts?	Yes, no warranty.
	No.
Does the unit have external mechanical, water or corrosion damage?	Yes, no warranty.
	No.
Does the unit have burn marks or melting marks on its housing, or does it smell burned?	Yes.
	No.
Does the unit have mechanical or burn damage to its electrical connectors?	Yes, no warranty.
	No.

3. First power up

Power the unit up and check	
Remove all wires and cables from the unit.	
Connect the unit to a DC power supply or battery bank.	Yes, lodge a warranty claim.
Turn the DC supply on and turn the unit on via its main switch.	No.
Is there a DC short-circuit?	
Are there any I ED(s) on or blinking?	Yes, go to 4.
	No.

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Power the unit up and check		
		The fuse is not broken.
For MultiPlus 500-1600VA or MultiPlus Compact only:		The replacement fuse blew, lodge a warranty claim.
Check the internal fuse and replace the fuse if it is broken. What is the outcome?		Fuse replaced, no LED(s) are on or blinking.
		Fuse replaced, LED(s) are on or blinking, go to 4.
For all units except the MultiPlus Compact:	_	
Check if the remote link is in place; if not, place the link. Are any LED(s)		Yes, go to 4.
on or blinking now?		No.
<u>Note:</u> To find the location of the remote link, refer to the product manual.		
For the MultiPlus Compact:		
Check the DIP switches. DIP switch 1 should be set to "off", and DIP switch 2 should be set to "on". If this is not the case, set DIP switch 1 to		Yes, go to 4.
"off" and set DIP switch 2 to "on". Are any LED(s) on or blinking now?		No.
<u>Note:</u> For more information on the DIP switches, see the product manual, chapter 5.5.		

4. Bluetooth

Bluetooth check	
Is the product a "Smart" product, i.e., does it have built-in Bluetooth?	Yes.
	No, go to step 5.
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.	Yes, go to step 5.
To re-activate Bluetooth, consult the product manual.	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. 	
Is Bluetooth active now?	

5. Firmware and settings

Update the firmware and reset the settings to default	
Connectivia on interface (or Plueteeth) to the VietronConnections and	Yes.
navigate to the unit. Is this possible?	No, not possible; lodge a warranty claim.

Update the firmware and reset the settings to default	
 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 info page, check and/or update the firmware.	
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.
Does the VictronConnect app display any error codes? If so, try to resolve the errors by consulting the product manual. Did it get resolved?	 No errors, go to 6. There were errors, but they were resolved. There were errors, but they were not resolved.
Write down the error number and name.	Error number: Error name:

6. Functionality

Inverter functionality check	
Measure the DC voltage at the DC connection terminals inside the unit is this voltage the same as the battery voltage reading in the	Yes.
VictronConnect app?	No, lodge a warranty claim.
Measure the AC output using a True RMS multimeter. Are you measuring exactly 230Vac or 120Vac depending on the unit's AC voltage	Yes.
rating?	No, lodge a warranty claim.
Does the measured AC voltage correspond with the AC voltage reading	Yes.
in the VictronConnect app?	No, lodge a warranty claim.
Load the unit using incandescent light globes, electric heaters or any other type of resistive AC load. Can the unit power a load as high as its power rating without overload or temperature alarm?	Yes.
	No, lodge a warranty claim.
Is the unit making an unusual noise?	No.
	Yes, lodge a warranty claim.
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Transfer switch check	
Connect AC input to the unit. Check if, after a few seconds, the AC input switches over to the AC output and that the "inverter" LED has turned off	Yes.
and that the "mains on" and "bulk" LED are on?	No, lodge warranty claim.
For 3kVA units and above:	Yes.
Measure the voltage of the second AC output. Do you measure the same voltage as the AC input after a 2-minute delay?	No, lodge warranty claim.

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Transfer switch check		
For Quattros only:		Yes.
Repeat the above steps for the second input (AC2-in). Has this been successful?		No, lodge warranty claim.
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Charger functionality check		
Connect the charger to a partly discharged battery. Measure the battery		Yes.
voltage. Is the voltage of the battery slowly increasing?		No, lodge warranty claim.

Is the battery being charged? Check if the charger is progressing through the "bulk", "abs", "float", and "storage" charge stages. Is this the case?	Yes.
	No, lodge warranty claim.
Measure the charge current with a DC current clamp. Is the charge current the same as indicated in the VictronConnect app (a deviation of up to 1% is allowed)?	Yes.
	No, lodge warranty claim.
Force the unit to provide more charge current by using partly empty batteries or switch a large DC load on. Can the unit provide 80% of its rated charge current (80% is the default setting)?	Yes.
	No, lodge warranty claim.

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			
RMA type:		Warranty claim.	
		Non-warranty repair or replacement request.	
RMA lodgement date			
Victron Energy RMA number			
Your reference number			

