

TEST RESULT FORM

FOR MPPT SOLAR CHARGE CONTROLLERS



Please fill in this form and submit together with the RGA.
Refer to the **Error Diagnostic Process - MPPT** for guidance on filling out this form.

INFORMATION

Date:

Model:

Part number:

Serial number:

Date of installation (if known):

Date of failure (if known):

Length of operation (if known):

Country of installation:

Is the system on VRM? Yes No

VRM URL (if available):

Type of system: Boat Vehicle Land Unknown

System has DC only or has both AC and DC (if known): DC DC + AC

Battery brand, type, voltage and capacity (if known):

Solar panel brand, voltage, power and configuration (if known):

A. VISUAL CHECK

Does the unit have water damage? Yes No

Is the unit very dirty, is there soot, dust or oil present? Yes No

Does the unit have mechanical damage to its housing? Yes No

Is there sand coming out of the unit (15A models only)? Yes No Not applicable

Does the unit have mechanical damage to its connectors? Yes No

Does the unit have loose MC4 connectors (MC4 models only)? Yes No Not applicable

Does the unit have burned connectors? Yes No

Does the unit have other burn marks, or does it smell burned? Yes No

B. REPLACEABLE FUSE CHECK

Does the unit have an external fuse (10A, 15A and 20A only)? Yes No. Go to C

Is the external fuse broken? Yes No. Go to C

Have you replaced the fuse? Yes No

C. BATTERY - REVERSE POLARITY TEST

Battery reverse polarity test meter reading: Reading: Pass Fail

D. PV - INPUT TEST

PV input test meter reading: Reading: Pass Fail

E. BATTERY TO PV - REVERSE FET TEST

Battery to PV reverse FET test meter reading: Reading: Pass Fail

F. PV TO BATTERY - HIGH SIDE FET TEST

PV to battery high side FET test reading: Reading: Pass Fail

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G. SHORT CIRCUIT TEST PV AND BATTERY

Internal PV short circuit test: Pass Fail

Internal battery short circuit test: Pass Fail

H. VICTRONCONNECT TEST

Can a connection with Victron Connect be made? Yes No. Go to I

Bluetooth interface firmware version before and after update: Before: After:

Solar charger firmware version before and after update: Before: After:

Firmware updated in the field? If so, previous firmware number: Yes: No: N/A

What were the last 4 errors? 1. 2. 3. 4.

Have the history file and settings files been saved? Yes No

Does the unit have an unresolvable error? If yes, what: Yes: No

I. CHARGE VOLTAGE TEST

Does the voltage correspond with expectation? Yes. Go to J No

Has the remote connector been checked and fixed? Yes No

Is the charger enabled in VictronConnect? Yes No

J. CHARGE CURRENT AND PV VOLTAGE TEST

Is the unit capable of delivering expected charge current? Yes No

Does PV voltage correspond with VictronConnect PV voltage? Yes No

K. ACCESSORIES AND SPECIAL FEATURES

Is the remote on/off connector functional? Yes No Not applicable

Is the pluggable display and the port functional? Yes No Not applicable

Is the load output functional? Yes No Not applicable

Is the alarm relay functional? Yes No Not applicable

Is the VE.Direct port data communication functional? Yes No Not applicable

Is the VE.Direct TX port functional? Yes No

Is the VE.Direct RX port functional? Yes No

Is the VE.Can port functional? Yes No Not applicable

Is Bluetooth functional? Yes No Not applicable

REMARKS

Remarks and/or additional observations:

RGA

For your administration purposes fill this in after lodging RGA.

RGA Lodgement date:

Master Instruments RGA number:

Your reference number: