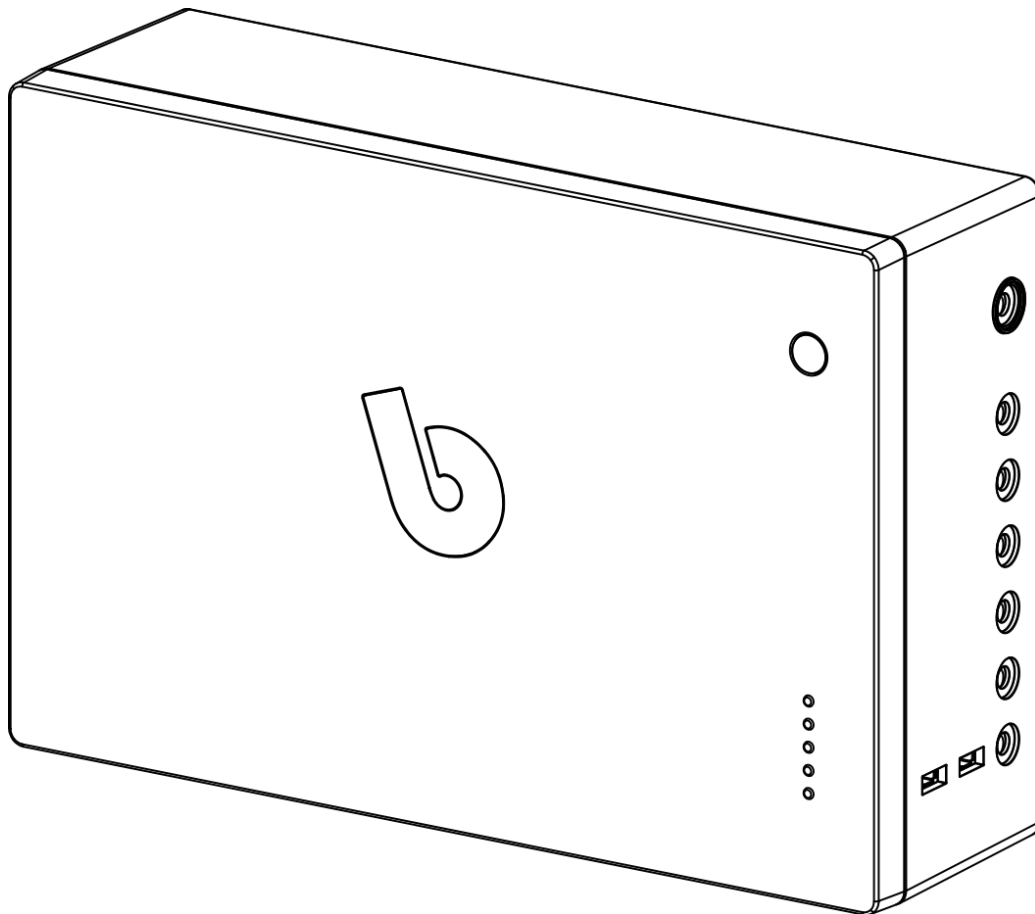


BBOX Home

Non-Intrusive Diagnostics of the Electronics



14 July 2016

DRAFT

Steps

1. Press button to turn device under test on
 - a. Do lights turn on?
 - i. Y: Go to step 10
 - ii. N: Go to step 2
2. Press and hold button for 20 seconds to reset device under test
 - a. Do lights turn on?
 - i. Y: Go to step 3
 - ii. N: Complete "Electronics Diagnostic Checklist"
3. Press button to turn device under test off
4. Plug in a USB load
5. Press button to turn device under test on
 - a. Is the USB load powered?
 - i. Y: Go to step 6
 - ii. N: Complete "Electronics Diagnostic Checklist"
6. Press button to turn device under test off
7. Remove USB load
8. Plug in a 12V load
 - b. Is the 12V load powered?
 - i. Y: Complete "Electronics Diagnostic Checklist"
 - ii. N: Go to step 9

9. Press button to turn device under test on
 - c. Is the 12V load powered?
 - i. Y: Go to step 10
 - ii. N: Complete "Electronics Diagnostic Checklist"
10. Press button to turn device under test off
11. Remove 12V load
12. Plug in charger
 - d. Do the status LEDs display the charging sequence?
 - i. Y: Go to step 13
 - ii. N: Complete "Electronics Diagnostic Checklist"
13. Charge the device under test for at least 6 hours
 - e. Is only the top light blinking?
 - i. Y: Go to step 14
 - ii. N: Complete "Electronics Diagnostic Checklist"
14. Log into the SMART Solar Dashboard
15. Go to Products List
16. Search for the device under test in the Serial Number column
17. Click View
18. Go to the Data tab

19. Confirm that the device under test has charged correctly
 - f. Is there evidence of absorption charging (battery voltage is 14.6V)?
 - i. Y: Continue
 - ii. N: Complete "Electronics Diagnostic Checklist"
 - g. Is there evidence of float charging (battery voltage is 13.8V)?
 - i. Y: Go to step 20
 - ii. N: Complete "Electronics Diagnostic Checklist"
20. Device under test electronics have passed all non-intrusive tests