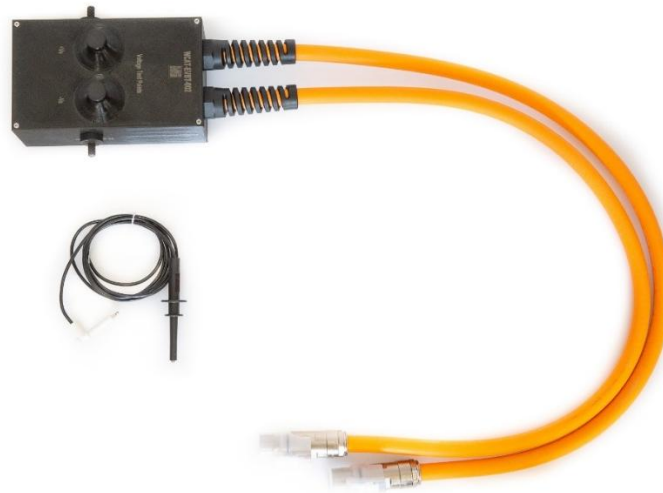

W-CAT-EVBT-002 Electric Vehicle Battery Test Box 70mm²

User Instructions

The W-CAT-EVBT-002 has been designed to connect to a specific 300 VDC electric vehicle battery and enable a user to conduct a number of electrical tests.



The W-CAT-EVBT-002 consists of:

- Main Test Box housing a number of test points for a voltage test, Insulation test and HiPot test
- 70mm² connectors; PL18W-301-70 (+Ve) and PL18Y-301-70 (-Ve)
- W-5600H05-100-0 - 4mm Banana plug lead for Seaward HAL 103 HiPot Tester
- Blanking plugs for each voltage test point and insulation test point.

Conducting electrical tests:

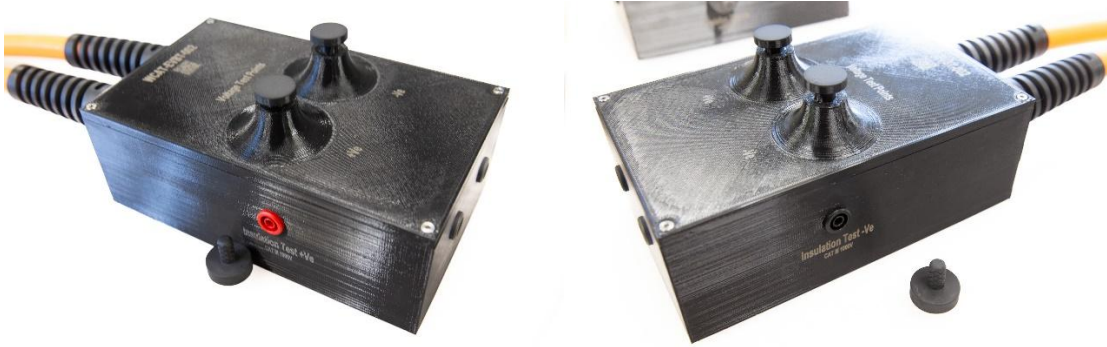
Before starting, ensure all blanking plugs are fitted to the test box and place on a flat surface. Then connect the EV connectors to the battery connection points.

Voltage Test:



1. Remove the voltage test point blanking plugs.
2. Noting the correct polarity insert the voltage tester probe tips in to the voltage test points until you feel the tips reach the internal test points.
3. Conduct the voltage test using the voltage tester.
4. Once the voltage test is complete, remove the probe tips and replace blanking plugs.

Insulation Test:



1. Remove the tip cover from the insulation test probe so that it exposes the lantern tip.
2. Remove the +Ve Insulation Test Point blanking plug.
3. Insert the insulation test probe lantern tip into the +Ve Insulation Test Point.
4. Conduct the +Ve Insulation Test.
5. Once the test is complete, remove the test probe and replace the blanking plug.
6. Remove the -Ve Insulation Test Point blanking plug.
7. Insert the insulation test probe lantern tip into the +Ve Insulation Test Point.
8. Conduct the -Ve Insulation Test.
9. Once the test is complete, remove the test probe and replace the blanking plug.

HiPot Test:



1. Ensure all blanking plugs are fitted to the voltage and insulation test points.
2. Connect the W-5600H05-100-0 4mm Banana Plug to Seaward HAL Tester Test lead to the HAL 103.
3. Insert the test lead banana plug into the +Ve test point and conduct the HiPot test.
4. Once the test is complete, remove the banana plug and insert into the -Ve test point.
5. Conduct the -VE HiPot test.
6. Once complete, remove the 4mm banana plug lead.

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