

April 2025 #25-077

Question

A testing laboratory needs to perform testing and issue a test report for DC isolator installed within an Inverter (the specific models tested), however the DC isolator has been previously tested to AS 60947.3:2023 and now it is integrated into a specific PV inverter, so the question asked is:

Does D.9.3.201 Test for uninterrupted duty of Annex ZZ of AS 60947.3:2023 need to be tested again, within the PV inverter?

Answer

Noting first, AS 60947.3:2023 requires the DC isolator to be tested inside the specific model of PCE (inverter) for relevant tests.

However, for clause D.9.3.201 if the DC isolator has been tested:

- to D.9.3.201 separately, and
- to the voltage and current values (or higher) of the inverter, and
- (as per paragraph 3 of clause D.9.3.201) the enclosure that test was conducted in was same size or smaller than the enclosed area within the inverter the DC isolator is to be placed

then the DC isolator does not need to be retested in the specific model inverter for this D.9.3.201 test.

The full AS 60947.3:2023 test report will need to include the dimensions of the enclosed area of the inverter the DC isolator is located in, and the D.9.3.201 test report as an attachment. The attached D.9.3.201 report would need to also clearly indicate the size of enclosure used for the test.