

Type approval qualification of Photovoltaic-Modules

Standards

IEC 61215 (2005): Crystalline silicon terrestrial photovoltaic (PV) modules – Design qualification and type approval
Edition 2

IEC 61646 (2008): Thin-film terrestrial photovoltaic (PV) modules – Design qualification and type approval
Edition 2

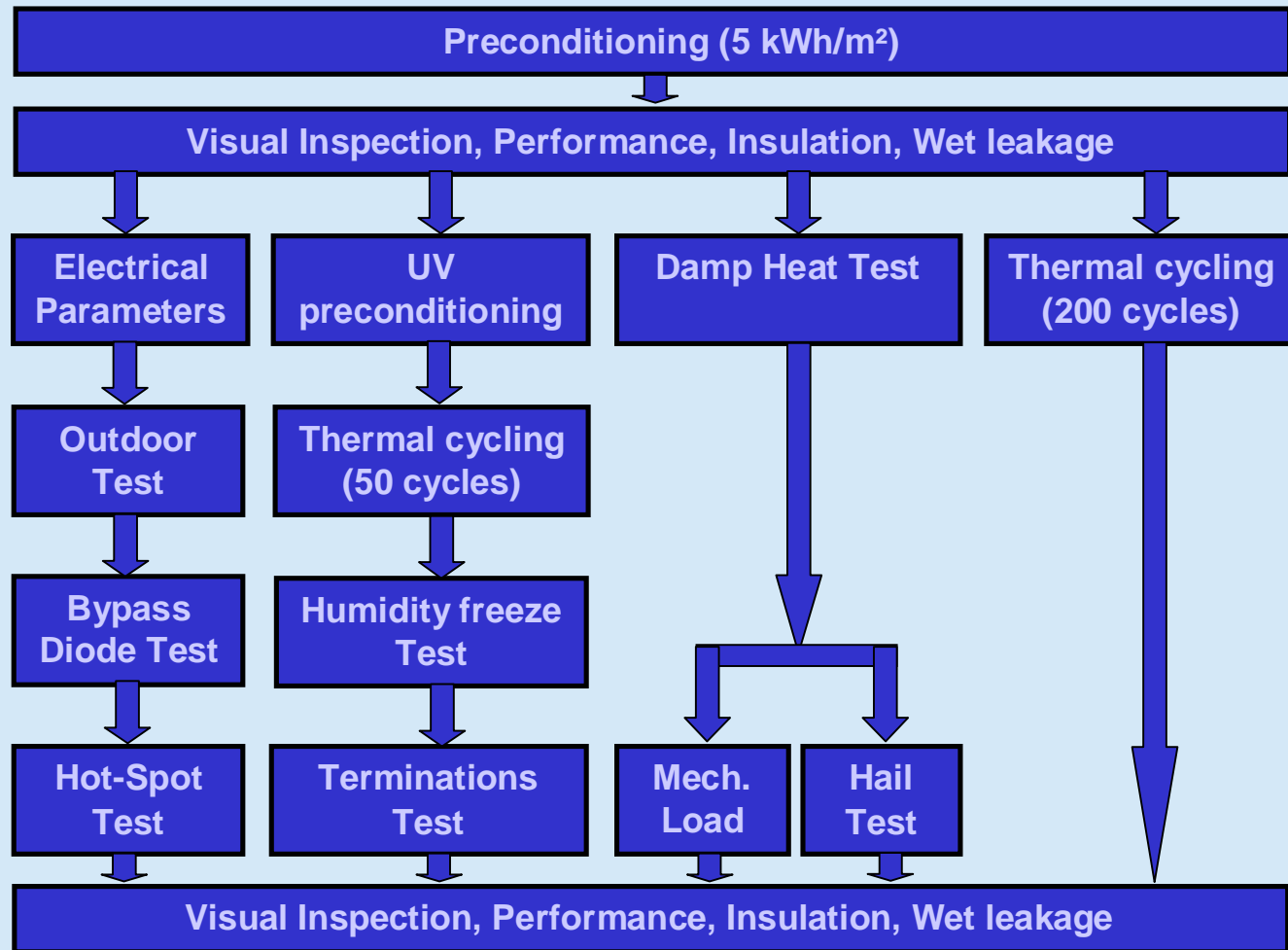
IEC 61730 (2004): Photovoltaic (PV) module safety qualification

- Part 1: Requirements for construction
- Part 2: Requirements for testing



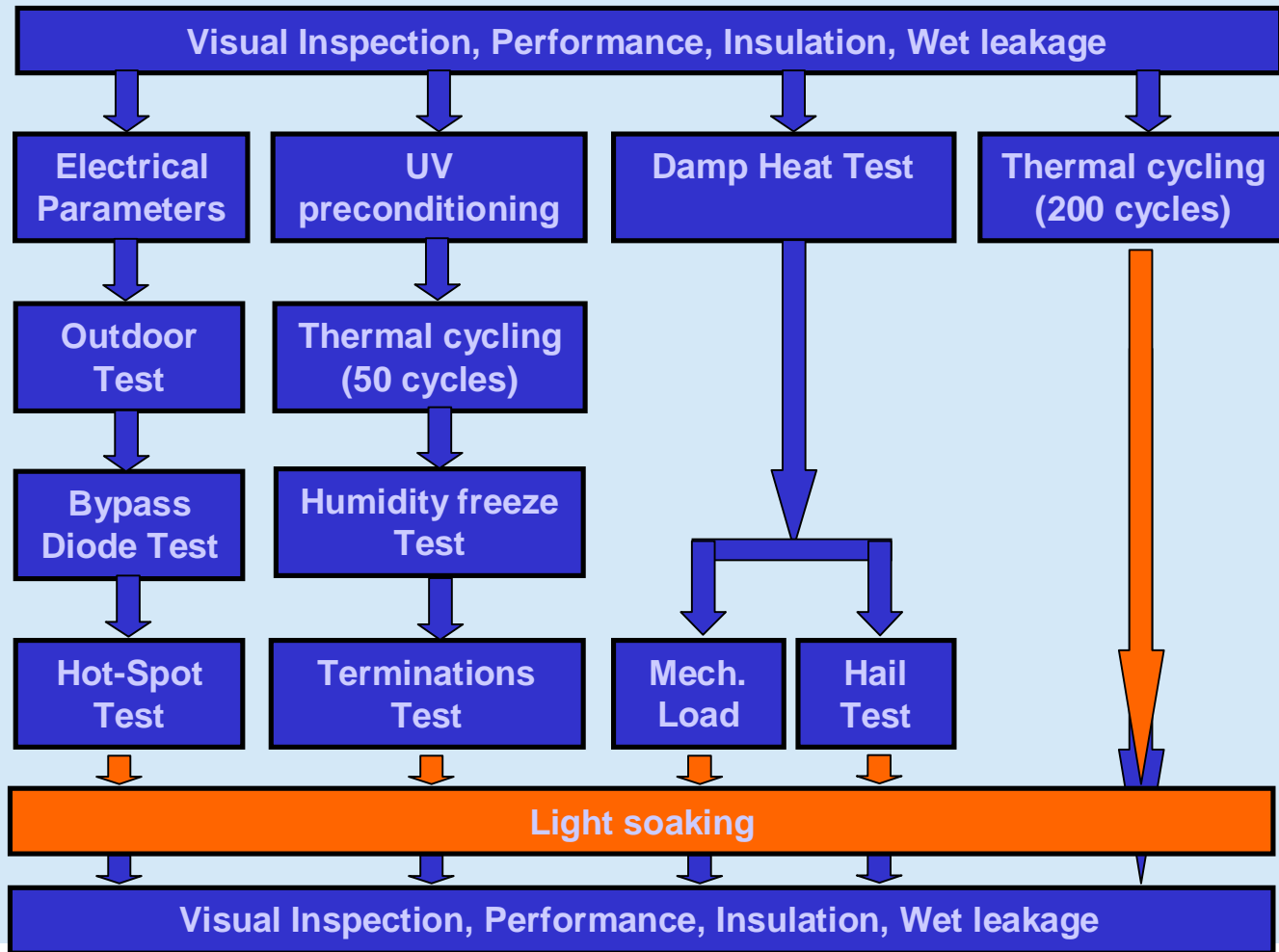
IEC 61215, Ed. 2 (April 2005)

Crystalline silicon terrestrial PV modules - Design qualification and type approval



IEC 61646, Ed. 2 (2008)

Thin-film terrestrial PV modules - Design qualification and type approval



IEC 61215

Pass Criteria

Extract from IEC 61215:

A module design shall be judged to have passed the qualification tests, and therefore to be IEC type approved, if each test sample meets all the following criteria:

- a) the degradation of maximum output power does not exceed the prescribed limit after each test nor 8 % after each test sequence;
- b) no sample has exhibited any open circuit during the tests;
- c) there is no visual evidence of a major defect
- d) the insulation test requirements are met after the tests;
- e) the wet leakage current test requirements are met at the beginning and the end of each sequence and after the damp heat test;
- f) specific requirements of the individual tests are met.

