Declaration
Project no. 21247306

Manufacturer: Renusol Europe GmbH
Piccoloministraße 2
51063 Köln
Germany

Product: PV mounting system
Typ: VS+, MS+, TS+, FS and ISSE

The above listed PV mounting systems have passed the tests according to IEC 61730-2: 2016 MST13, UL 2703 section 13 and section 22, IEC 61701: 2011, IEC 60068-2-52: 1996 and IEC 60060-1: 2010 according to the respective test requirements (Test plan see page 2). It is confirmed that the mounting system components, as well as the trapezoidal sheet metal covering in case of direct fastening, fulfill the requirement after preconditioning by salt spray test and the current pulse test for equipotential bonding and the lightning current carrying capacity according to the listed standards.

Business Field Solar Energy

Appendix: Basics
Test plan
Basics

IEC 61730:2016 Photovoltaic (PV) module safety qualification - Part 2: Requirements for testing: Continuity of equipotential bonding MST13

UL 2703 Outline of investigation for mounting systems, mounting devices, clamping/retention devices and grounding lugs for use with flat plate photovoltaic modules and panels: Performance: section 13 bonding path resistance test and section 22 bonding conductor test

IEC 61701:2011 Salt mist corrosion testing of photovoltaic (PV) modules


IEC 6060-1:2010 High-voltage test techniques – Part 1: General definitions and test requirements

Test plan

4.1 Visual inspection (initial)

4.2 Continuity of equipotential bonding (initial) (IEC 61730:2016 MST 13 / UL 2703 sec. 13) with 10 A, 25 A and 40 A test current for 2 min

4.3 Bonding conductor test (UL 2703 sec. 22) with 46.5 A for 60 min and 59 A for 2 min

4.4 Salt mist corrosion (IEC 60068-2-52 Sec.:3) - with 4 spraying phase & 2 hrs. + 22 hrs. storage in humid conditions followed by storage in dry conditions for 3d

4.5 Current impulse test (IEC 6006:1) 8/20 μs with 10 kA and 20 kA

4.6 Continuity of equipotential bonding (Control) (IEC 61730:2016 MST 13 / UL 2703 sec. 13) with 10 A, 25 A and 40 A test current for 2 min

Visual inspection (control)