



TESTING AND MEASURING EQUIPMENT/ALLOWED SUBCONTRACTING

PV module – Safety qualification, Part 1: Requirements for construction

IEC 61730-1 1st Edition (2004)

R = Required by Lab

S = May be subcontracted

| Clause | Testing | Testing / measuring equipment / material needed | Subcontracting |
|--------|--|---|----------------|
| 6 | Polymeric Materials | <ul style="list-style-type: none"> - Equipment for testing of the risk of fire in accordance with IEC 60695 (flammability rating, hot wire ignition rating, high-current arc ignition rating) - Equipment for UV resistance test in accordance with ANSI/UL 746C - Equipment for Comparative Tracking Index (CTI) determination in accordance with IEC 60112 - Equipment for Inclined Plane Tracking rating in accordance with ANSI/ASTM D2303 - Equipment for maximum flame spread test in accordance with ASTM E162-1990 - Test equipment in accordance with MST 21 (temperature test) of IEC 61730-2 - Test equipment in accordance with MST 15 (partial discharge test) of IEC 61730-2/IEC 60664-1 | S |
| 7 | Internal Wiring and Current-Carrying Parts | Vernier callipers | R |
| 8 | Connections | <ul style="list-style-type: none"> - Vernier callipers - Test equipment in accordance with MST 11 (accessibility test) of IEC 61730-2 - Equipment for IP55 test in accordance with IEC 60529 - Equipment for steel ball impact test in accordance with IEC 61721 | R |
| 9 | Bonding and Grounding | Test equipment in accordance with MST 13 of IEC 61730-2 (ground continuity test) | R |
| 10 | Creepage and Clearance Distances | Vernier callipers | R |
| 11 | Field Wiring Compartments with Covers | <ul style="list-style-type: none"> - Vernier callipers - Test equipment in accordance with IEC 61215 section 10.14 (robustness of terminations test) - Test equipment in accordance with MST 33 (conduit bending) and MST 44 (terminal box knock out test) of IEC 61730-2 | R |