Solar Mounting Racks and Trackers

Come to the Solar Experts for Full-Service Testing

TÜV Rheinland is the world leader in solar product testing and certification, offering vertically-integrated testing services from materials qualification thru product and system certifications. An exciting addition to the technical capabilities includes the qualification and certification of solar mounting racks and trackers to existing and emerging industry standards, codes and guidelines. As a recognized NRTL, TÜV Rheinland NA provides integrated testing programs that provide independent third party proof of conformance needed for successful market entry and regulatory acceptance.

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Emerging North American Compliance Requirements

Navigating the requirements for installing a solar power system in North America has traditionally been hampered by the lack of clear standards and the different expectations of local Authorities Having Jurisdiction (AHJs). Recent publications of UL Subject 2703 (PV Mounting Racks) and UL Subject 3703 (Solar Trackers) have helped provide needed guidelines for manufacturers and other stakeholders.

TÜV Rheinland provides third party proof of conformance to these draft standards as well as compliance testing for other international safety requirements. By assessing the relevant standards, codes and guidelines, TÜV Rheinland develops appropriate robust and efficient testing programs to help reduce the risk for investors, designers, EPCs utilities, inspectors, and other project stakeholders.

Custom Protocols
Based on the target market/region, the solar testing experts at TÜV Rheinland PTL will develop appropriate test programs and provide certification listing services. Some of the sources reviewed for PV mounting racks and solar trackers include:

- International Building Code (IBC)
- International Fire Code (IFC)
- International Code Council Evaluation Services (ICC-ES)
- National Electric Code (NEC – NFPA 70)
- NFPA 79 (Industrial Machinery)
- UL Subject 2703 -- Rack Mounting and Clamping Devices (draft)
- UL Subject 3703 -- Solar Trackers (draft)
- 2PfG 1904 -- PV Mounting Systems -- North America
- 2PfG 2310 -- PV Modules -- Inhomogeneous Snow Loads (draft)
- IEC 62727 -- PV Systems -- Specification for Solar Trackers
- IEC 62817 -- Solar Trackers for PV Systems -- Design Qualification (draft)

Why TÜV Rheinland?

Our Customers – or “Partners” – benefit from working with a respected, independent, accredited laboratory who can verify compliance to multiple solar racking and/or tracking requirements and guidelines. In addition, our solar testing network is comprised of more than 200 specialists in various laboratories worldwide, including facilities in: Tempe, Arizona, US; Bangalore, India; Gyeongsan, Korea; Cologne, Germany; Osaka and Yokohama, Japan; Shanghai, China; and Taichung, Taiwan. Our “partners” will benefit from comprehensive, coordinated testing services and exceptional customer service. TÜV Rheinland PTL is one of the only PV testing laboratories that can provide complete PV system electrical, structural, and performance characteristics for all elements of commercial and residential PV/CPV installations.

Contact:
info@tuv.com or 1-TUVRHEINLAND