



Services for Photovoltaic (PV) Component Manufacturers

Ensuring the quality of PV components to facilitate the global market access

The worldwide utilisation of solar energy has led to an annual increase of around 30% in the market for PV technology, which has resulted in numerous opportunities for PV industry. As part of the entire PV value chain, PV component quality is essential to ensuring the safe and smooth operation of PV power plants.

TÜV Rheinland has more than 25 years of experience in the PV field and a top-class global service network. We can thus test and certify your PV components according to the relevant national and international standards, thereby ensuring that they are safe, durable and reliable. We can also issue test reports and certificates that are widely accepted by overseas buyers, thus helping to enhance the competitiveness of your products in international markets.

TÜV Rheinland is your reliable partner

- Our neutral test report and certificate prove that your components comply with relevant legal requirement, and guarantee the safety and reliability of your products.
- Our internationally recognized TÜV test mark increases your competitiveness and facilitates your export.
- The documented safety standards by TÜV Rheinland reduce the risks of your company's legal liability.
- Our extensive experience and one-stop solutions benefit you throughout the entire project.

Our Services

With our inhouse state of art test facilities our experts carry out testing and certification based on such international standards as IEC 61730, IEC 61646, IEC 61215 / IS 14286, EN 50521 and EN 50548, as well as such standards as DIN V VDE V 0126-5, to ensure the safety and quality of PV components. In addition, TÜV Rheinland's internal requirements, such as 2 PfG 1169/08.2007 for PV cable testing, and diverse standards also covering the US market for the electrical, mechanical and construction requirements that these components must comply with to guarantee sufficient safety against hazards over the long term, such as electric shocks or burning. They also define and lay out specific material requirements for fire proofing and stability in bad weather conditions.

- Test for junction boxes according to DIN V VDE V0126-5:2008-5
- Test for connectors according to EN 50521:2008-11
- Test for cables according to 2 PfG 1169/08.2007
- Test for inverters according to IEC 62109, EN 50178 and IEC 61683
- Backsheet qualification according to 2 PfG 1793-10:2010
- Charge controller / MPPT(Max Power Point Tracking) units - IEC62093, IEC 60068 series
- Test for MNRE(Ministry of New and Renewable Energy) requirements



Product Scope

PV Electrical Components

- JunctionBoxes
- Connectors
- Cables
- Cable Glands

PV Materials

- BackSheets
- Cells
- Inverters (Charge Controller)
- BOS (Balance of Systems)

PV System Components

- Mounting systems and sun trackers
- Combiner boxes

Contact Us

Head Office

TÜV Rheinland (India) Pvt. Ltd.
82/A West Wing, 3rd Main Road,
Electronic City Phase I,
Bangalore-560 100, India.
Tel # : +91-(0)80 3989 9888 / 3055 4319
Fax # : +91-(0)80 3055 4342
Email: info@ind.tuv.com

Our offices

| | |
|------------|---------------|
| Ahmedabad | Noida |
| Chennai | Panchkula |
| Cochin | Pune |
| Coimbatore | Rajkot |
| Gurgaon | Ranipet |
| Hyderabad | Tirupur |
| Indore | Trichy |
| Kolhapur | Vadodara |
| Kolkata | Visakhapatnam |
| Mumbai | |