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光伏组件制造商服务 Services for Photovoltaic (PV) Module Manufacturers

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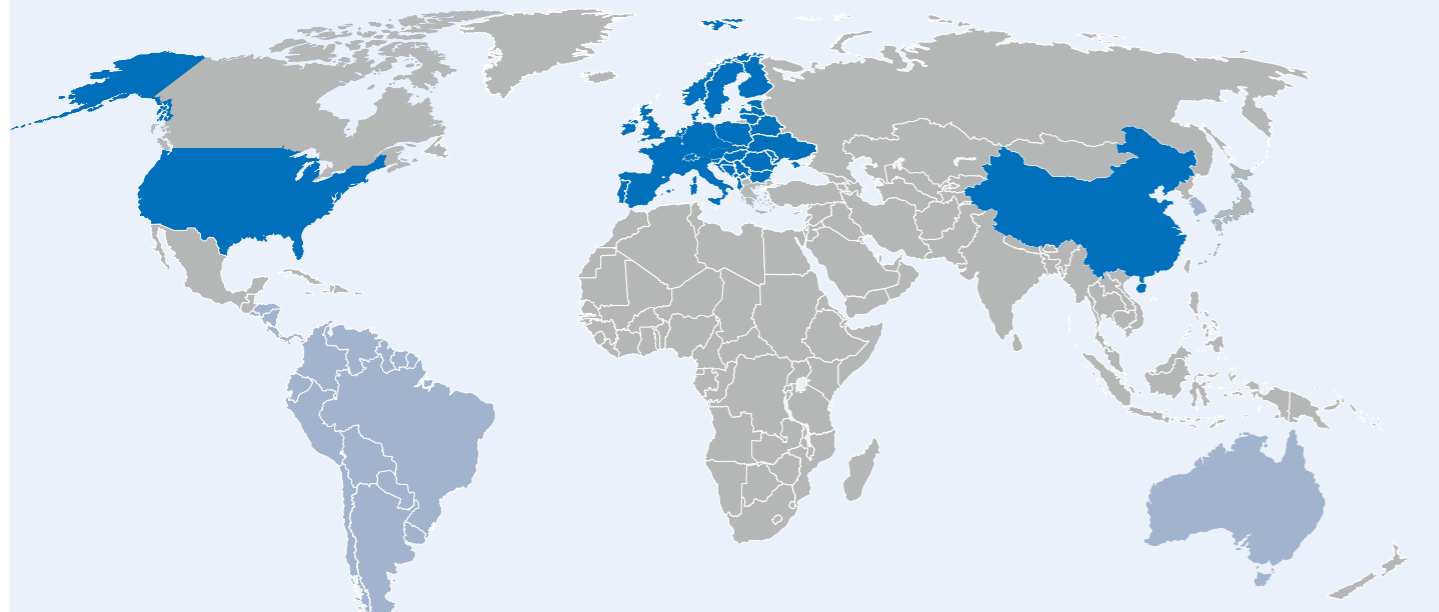


保障光伏组件品质，提速拓展海外市场

Ensuring quality of PV modules to facilitate global market access

德国莱茵TÜV在光伏领域拥有超过30年的丰富经验，基于其遍布全球的服务网络，可以对广大光伏产品制造商提供完善的测试与认证服务。凭借其卓越的能力，德国莱茵TÜV已在全球范围内赢得良好声誉，广泛获得海外及国内买家的认可与信赖。德国莱茵TÜV致力于提供专业的本地化服务，保障出口光伏产品的品质。

With more than 30 years of rich experience in the photovoltaic industry and its global service network, TÜV Rheinland is able to provide first-class testing and certification services for PV manufacturers. TÜV Rheinland has an excellent reputation worldwide and its outstanding capabilities are recognised and trusted by purchasers both at home and abroad. We are committed to providing professional, localised services and to ensuring the high quality of exported photovoltaic products.



德国莱茵TÜV，您值得信赖的合作伙伴

TÜV Rheinland is your reliable partner

- 我们是全球领先的光伏组件和零部件测试服务提供商
- 我们是全球领先的测试和认证服务提供商
- 我们的权威证书及一站式检测服务可助您进一步拓展海外市场
- Our authoritative certification and one-stop testing services can help you to further expand the overseas market
- 我们已成功获得国际权威实验室资质，确保提供高质量服务
- We have successfully qualified as an international authoritative laboratory to provide high-quality services
- 遍布大中华区的专业团队及服务网络，可为您提供长期的技术咨询与跟踪服务
- Our professional teams and service networks are available across Greater China to offer you long-term technical consultation and tracking services
- 专业的失败案例分析使您的产品开发减少投入，缩短周期
- Our analysis of failure cases enables you to reduce the amount of investment and time involved in product development
- 定期的国内培训为您的技术人才储备开辟道路
- Regular domestic training programs offer opportunities for your technical personnel development
- 分享最新市场讯息与技术知识，让您从容应对市场变化
- Our knowledge of the latest market information and technological developments help you to keep up with changes in the market

我们的服务

Our services

我们的专家不仅能够根据目前欧洲市场光伏组件标准ANSI/UL 1703和IEC 61730-1, -2等进行相关的标准化测试和认证，同时还提供一系列客户化的专业服务，如产能测试等，保障光伏组件在整个使用周期中具备高性能与卓越的表现，从而帮助国内制造商通过差异化的产品竞争优势更有效地开拓国际市场。

Our experts are able to carry out the testing and certification of PV modules based on standards such as ANSI/UL 1703 and IEC 61730-1, -2. Our unique, customised solutions, such as our energy yield testing service, help domestic manufacturers to gain differentiated competitiveness in their efforts to access global markets.



产品类别 Product category	适用标准 Applicable standards
晶体硅组件 Crystalline PV modules	IEC 61215 IEC 61730-1, -2 ANSI/UL 1703
薄膜光伏组件 Thin-film PV modules	IEC 61646 IEC 61730-1, -2 ANSI/UL 1703
聚光光伏组件 Concentrator PV (CPV) modules and assemblies	IEC 62108 IEC 61730-1, -2 ANSI/UL 1703
建筑一体化光伏组件 PV modules intended for building integration (BIPV)	IEC 61215 IEC 61730-1, -2 ANSI/UL 1703

其他服务

Other services

- 电池片计量
- Solar cell characterization
- 根据IEC 61701进行盐雾腐蚀测试
- Salt mist corrosion testing according to IEC 61701
- 耐氨测试
- Ammonia testing
- 标准化和/或扩展的可靠性测试（持续测试直至出现失败现象）
- Standard and/or extended reliability testing (test to failure)
- 确定组件年发电量
- Determination of annual energy yields
- 根据ANSI/UL 790进行防火测试
- Fire testing according to ANSI/UL 790
- 建筑一体化光伏组件认证
- Qualification of PV modules intended for building integration (BIPV)
- 交联度和剥离强度测试
- Gel-content test and Peel-off test
- 标准组件标定（标准测试条件下）
- Reference module calibration (under Standard Test Conditions, STC)
- 出货前的检验：在德国莱茵TÜV实验室快速测量组件标准测试条件下的功率
- Pre-shipment inspections with prompt STC-verification measurement in a TÜV Rheinland PV laboratory
- 根据IEC 60904-9对瞬态太阳能模拟器进行评估
- Flasher simulator assessment in accordance with IEC 60904-9
- PID测试及认证
- PID testing and certification
- 沙尘测试
- Sand and dust abrasion testing