



Choose certainty.
Add value.

PV Discovery 光伏·发现



What are reliable PV modules and how to select the right PV module manufacturer?

- PV Discovery - Large data analysis on power degradation patterns of PV modules
- PV Discovery - Evaluation of PV module outdoor performance

Large data analysis on power degradation patterns of PV modules

How to minimize risks and enhance reliability of PV modules?

Large data analysis on power degradation patterns is a powerful tool to facilitate your PV module selection. TÜV SÜD's service provides a unique platform for you and a shared version for owners to access PV power plants remotely and conduct power attenuation tests. This allows easy access to different power plant installations. large data processing; evaluation and performance analysis based on:

- Analysis of degradation patterns for different module types and cell technologies

如何购买高品质光伏组件？如何区分光伏组件良莠？

- 光伏·发现之光伏组件功率衰减大数据分析
- 光伏·发现之光伏组件户外性能评估

光伏·发现之光伏组件功率衰减大数据分析

如何购买高品质光伏组件？

光伏组件衰减大数据分析将成为提供组件遴选的有力依据。TÜV南德意志集团给您提供一个平台，对不同电站安装的组件进行功率衰减测试并进行大数据处理分析，为不同电站持有者提供共享平台。该平台的大数据处理分析包括：

- 不同型号组件随安装时间衰减的对比分析

- Analysis of degradation patterns for different installation sites and climatic areas
- Analysis of degradation patterns between different module manufacturers
- Analysis of degradation patterns between different installation sites and climatic areas
- 不同型号组件不同安装区域的衰减对比分析
- 不同品牌组件随安装时间衰减的对比分析
- 不同品牌组件不同安装区域的衰减对比分析

Evaluation of PV module outdoor performance

Large data analysis is the key to discovering and eliminating negative power factor output. What is a really good PV module? One that performs safely and reliably under real test conditions, rather than in simulated tests. TÜV SÜD provides solutions for outdoor comparison tests and evaluations. Long term performance comparison tests, under real weather conditions, reveal strengths and weaknesses of different module manufacturers. PV module performance and safety evaluation tests based on impartial testing focusing on:

- Determination of outdoor performance and reliability analysis
- Comparison between actual irradiance and performance
- Performance under low irradiance
- Generating capacity of phase irradiance
- Micro-cracks detection and infrared (IR) analysis at module and array level
- Electrical output of the module
- Conversion efficiency
- Efficiency and yield evaluation
- Analysis of degradation patterns for safety and performance

Regular updates with technical information providing details on all safety and performance related aspects between different module manufacturers on outdoor comparison tests.

PV Discovery - Not just a typical testing service with pass or fail results, but an interactive data analysis platform designed on the evaluation of test results to enhance reliability and safety.

TÜV SÜD lifts the curtain and explores the secrets behind PV power generation.

光伏·发现之光伏组件户外性能评估

探索光伏大数据，发现影响电站输出效率的关键因素。什么是真正的光伏好组件？能经受实际考验的才是！TÜV南德意志集团给您提供一个平台，让不同厂家的主流光伏组件长期在公平、公正的条件下运行从而对比它们的表现。我们基于实际户外测试平台，为您提供一系列户外实测分析：

- 户外最大功率确定
- 性能与辐照度相关性
- 低辐照度下性能
- 阶段辐照度的发电能力
- 阵列隐裂/红外检测
- 单位发电量
- 光电转换效率
- 效率评测
- 组件的衰减性能

您将长期收到我们的阶段性汇报，让您更了解您的产品；并且在自愿或匿名的前提下，您可能了解其它厂家同类产品的表现。

光伏·发现，不仅仅是一项测试服务，更是光伏测试数据的交互平台。

TÜV南德意志集团，带您一同探索光伏发电的“黑盒子”。