



Photovoltaic inverter protection solution

Why do PV farms need inverters?

PV farms are comprised of very sensitive equipment that needs expansive protection. Because PV farms create direct current (dc) power, inverters (which are necessary to convert this power from dc to ac) are an essential component to their electrical production.

What is PV protect?

PV Protect is the compact solution for optimal protection of the inverter against overvoltages. The ready-to-connect boxes are available for different system voltages and can be supplied with various arrester types and MPP trackers.

What causes PV isolation protection?

The causes of 'PV Isolation Protection' are mainly divided into three categories: external environmental factors (increased environmental humidity), system factors (poor system ground insulation), inverter factors (DC line insulation detection and protection threshold is too small).

Why are solar PV inverters so expensive?

Inverters are expensive, but for industrial applications, an even more expensive failure is the cost of downtime. When lightning strikes a solar PV system, it causes an induced transient current and voltage within the solar PV system wire loops.

Do PV systems need a surge protection system?

PV systems are at high risk of lightning strikes due to their installation in exposed locations and must therefore be protected against surges in accordance with EN 61643-32. To avoid system failures, high repair costs and loss of sales due to surge damage, powerful PV arresters are the best solution.

How to test a PV inverter?

Method: turn off the inverter, remove all PV strings, and use DC gear of multi-meter to measure the DC voltage of string to the ground. Multi-meter red test lead is connected to PV string positive or negative, and the black test lead is grounded. Observe whether its DC voltage is reduced to less than 20V.

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