

Soft overvoltage on the DC side of the inverter





Overview

Due to the deep coupling of the DC faults for the two-stage photovoltaic (PV) inverters, it is very difficult to determine the specific causes of DC faults. In terms of this issue, the fault mechanism of different cau.

What is DC overvoltage fault in inverter?

2.2. DC overvoltage fault The condition of DC overvoltage fault in inverter is that the DC capacitor voltage exceeds maximum allowable voltage U_{max} and maintains for a period of time, which triggers overvoltage protection and causes the inverter to stop.

What causes coupling in DC side of photovoltaic inverter?

There are multiple fault causes coupling in DC side of photovoltaic inverter. The changes of voltage, current and power are derived by fault mechanism analysis. The differences of failure feature are used to locate the fault cause.

How to diagnose DC overvoltage and undervoltage faults?

Furthermore, a complete set of fault diagnosis process is proposed for DC overvoltage and undervoltage faults. An experimental platform for PV power generation system is used to simulate the deterioration of operating conditions and obtains various fault data.

How do DC faults differ from grid-connected inverters?

Due to the different mechanisms of DC faults caused by different causes, there are obvious differences in characteristic such as voltage and current. Using the fault features of grid-connected inverters, a fault diagnosis process combining multiple technical means is proposed.



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There are many cases of soft faults in frequency converters, which are common faults in the actual working process of various frequency converters. How should we reduce ...

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The inverter is manufactured with internal overvoltage protection on the AC and DC (PV) sides. If the PV system is installed on a building with an existing lightning protection ...

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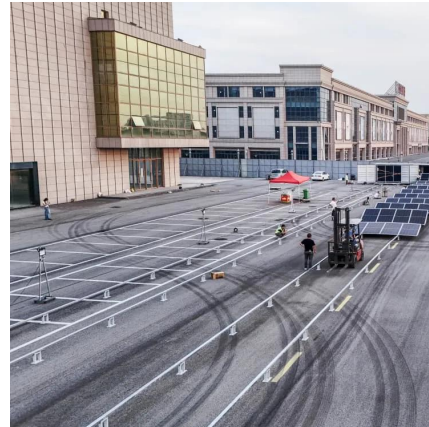


[Causes of DC overcurrent in photovoltaic inverters](#)

Cause III: When DC overvoltage fault caused by sampling error occurs, the DC voltage U_{dc} will be greater than U_{max} . Since the sampling channel is damaged, it is equivalent to the change of ...



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Analysis of the DC Overvoltage Caused by the Blocking of MMC Inverter

It is found that the development process of DC overvoltage is independent of fault time, and the virtual overvoltage is generated in steady state mainly contributed by the defect ...

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Causes and preventive measures for overvoltage generated by the inverter

Adding one roll, two roll motor and inverter capacity can achieve this purpose, but this is obviously uneconomical. The overvoltage generated by one roller and two rollers is disposed in time, ...

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Causes and Solutions of Overvoltage Caused by Inverter

Overvoltage generation and regenerative braking The so-called inverter overvoltage refers to the inverter voltage exceeds the rated voltage due to various reasons, ...

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How to solve inverter soft faults

There are many cases of soft faults in frequency converters, which are common faults in the actual working process of various frequency converters. How should we reduce the occurrence of soft faults in ...

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