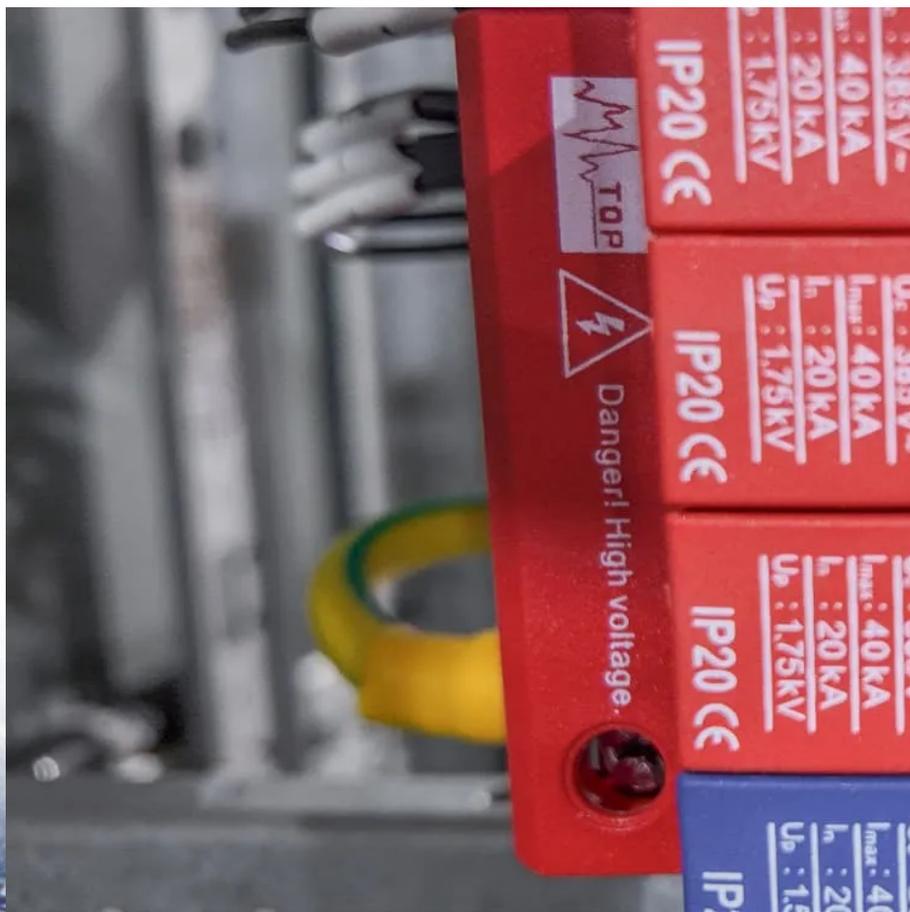


The reasons for inverter frequency reduction when the solar container communication station is connected to the grid include





Overview

The application of Photovoltaic (PV) in the distributed generation system is acquiring more consideration with the developments in power electronics technology and global environmental concerns.

Why does switching frequency vary in a grid-connected photovoltaic system?

Because the rated power of inverters limits the choice of devices in filter design, the switching frequency also varies . In a grid-connected photovoltaic system, two distinctive topologies exist: the multi-string power station and the centralization power station.

Why is high switching frequency necessary for grid-connected inverter applications?

For grid-connected inverter applications, high switching frequency is required to allow the reduction in weight of the inverter, reduce the output current and voltage harmonics, and also to decrease the size of the output filter .

How diversified and multifunctional inverters are used in PV system?

The advanced functionalities can be accomplished by using diversified and multifunctional inverters in the PV system. Inverters can either be connected in shunt or series to the utility grid. The series connected inverters are employed for compensating the asymmetries of the non-linear loads or the grid by injecting the negative sequence voltage.

How does a grid-connected PV system work?

In a grid-connected PV system, the injected currents are controlled by the inverter, and thus, maintains the DC-link voltage to its reference value and regulates the active and the reactive power delivered to the grid .



The reasons for inverter frequency reduction when the solar contain

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