

How big is the impact of connecting the inverter of the solar container communication station to the grid





Overview

How do solar inverters work?

Inverters convert DC generated solar power into AC. They handle the wide swings in power supplied from the solar array. They also steady the voltage supplied to the step-up transformer. The inverters do all this with special switching that regulates their power output. This switching often creates power quality problems in the system.

How do inverters affect the utility grid?

Harmonic disruptions from inverters can pass to the utility grid. These power disruptions cause voltage spikes and impulse-like effects in the high voltage winding. Such power disruptions can wreak havoc at the transformer and downwind on the grid.

Which part of a solar array connects to a step-up transformer?

Inverters are the part of the solar array that connects to the step-up transformer. Inverters convert DC generated solar power into AC. They handle the wide swings in power supplied from the solar array. They also steady the voltage supplied to the step-up transformer.

What kVA should a solar inverter have?

The kVA should match with the inverter's output characteristics. Wherever possible, consult both transformer and inverter manufacturers for their input. An in-depth power quality analysis of the solar system can reveal what kVA is best. When an in-depth PQ analysis is not in the cards, we recommend sizing for the worst case scenario.



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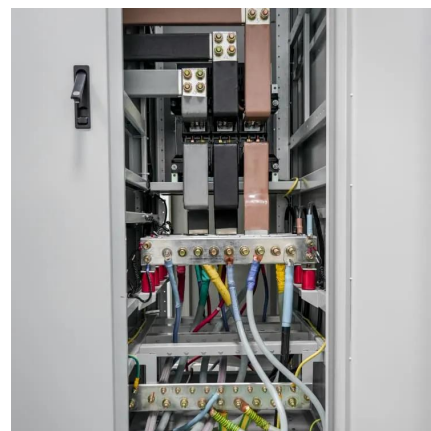
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