

Multifunctional AC Inverter





Overview

What is a multifunctional inverter?

Unlike traditional inverters, multifunctional inverters sacrifice their own output current quality to perform cooperative control over the energy quality in the system. However, further discussion is needed on how to allocate power and perform real-time control.

What is a multifunctional inverter power quality coordinated control strategy?

Considering the distribution and structural characteristics of the current new-type sources and loads, a multifunctional inverter power quality coordinated control strategy based on comprehensive evaluation is proposed.

What is a multi-functional converter?

The multi-functional converter is responsible for the integration of a PV-Battery system (distributed generation) on the AC grid. Furthermore, Real Time Digital Simulator (RTDS) and dSPACE have been used to analyze the performance and control of such multi-functional inverter when added to an AC microgrid.

Do multifunctional inverters have a coordinated optimization control strategy?

This paper proposes a coordinated optimization control strategy for multifunctional inverters based on comprehensive weight evaluation. This strategy aims to address power quality issues such as voltage deviation, harmonics, and three-phase imbalance in the distribution network through the coordinated control of multifunctional converters.



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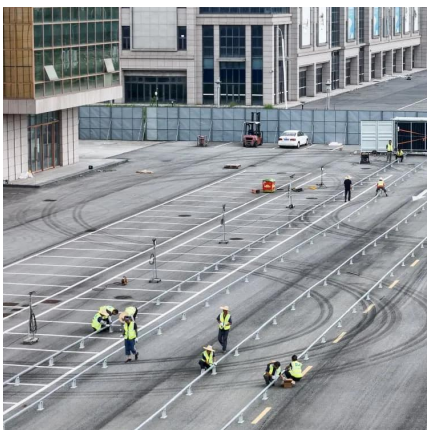


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