

ContainerPower Energy Solutions

Gabon s communication base station inverter is connected to the grid free of charge



Overview

How do grid-following inverters work?

Traditional “grid-following” inverters require an outside signal from the electrical grid to determine when the switching will occur in order to produce a sine wave that can be injected into the power grid. In these systems, the power from the grid provides a signal that the inverter tries to match.

How does a grid forming inverter work?

Grid-forming inverters can start up a grid if it goes down—a process known as black start. Traditional “grid-following” inverters require an outside signal from the electrical grid to determine when the switching will occur in order to produce a sine wave that can be injected into the power grid.

How do inverters work?

Inverters are just one example of a class of devices called power electronics that regulate the flow of electrical power. Fundamentally, an inverter accomplishes the DC-to-AC conversion by switching the direction of a DC input back and forth very rapidly. As a result, a DC input becomes an AC output.

How does a string inverter work?

String inverters connect a set of panels—a string—to one inverter. That inverter converts the power produced by the entire string to AC. Although cost-effective, this setup results in reduced power production on the string if any individual panel experiences issues, such as shading.

How are grid current components controlled?

The grid current components are controlled by two PI controllers in the grid-synchronous frame (dq) using the same technique as introduced in Vector current control. The plant model of the current controller contains multiple terms, in part due to the multi-stage filter of the TPI 8032.

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