

ContainerPower Energy Solutions

How to apply for grid connection of communication base station inverter



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 do I use communication technology to support grid requirements?

Applying the appropriate communication technology to support grid requirements depends upon many factors beyond just the communication technology, how it is deployed (e.g., architecture) and operations. One method is to start with the grid services or processes needing support.

Do inverters provide local grid support?

Inverters intended to provide local grid support during system events that result in voltage and/or frequency excursions as described in Section II.A.1 shall be provided with the required onboard functionality to allow for the equipment to remain online for the duration of the event.

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 I select a grid communications system?

With the above requirements known, another determining factor for selecting grid communications is the current state of communications technologies in place at the electric utility. Establishing the current state will form a basis for assessing the cost and effort required to implement the new communications required.

Why is reactive power important in a grid service inverter?

Reactive power is one of the most important grid services inverters can provide. On the grid, voltage— the force that pushes electric charge—is always switching back and forth, and so is the current—the movement of the electric charge. Electrical power is maximized when voltage and current are synchronized.

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