

Kongres Container

How to cool down the grid-connected inverter of a communication base station



Overview

What is the control design of a grid connected inverter?

The control design of this type of inverter may be challenging as several algorithms are required to run the inverter. This reference design uses the C2000 microcontroller (MCU) family of devices to implement control of a grid connected inverter with output current control.

Can an inverter be connected to the grid?

Only with the permission of the local grid department, the inverter can be connected to the grid. Before connecting the inverter to the grid, ensure the grid voltage and frequency comply with requirements, for which, refer to "Technical Data". Otherwise, contact the electric power company for help. 5 Electrical Connection User Manual 35.

Can a grid connected inverter be left unattended?

Do not leave the design powered when unattended. Grid connected inverters (GCI) are commonly used in applications such as photovoltaic inverters to generate a regulated AC current to feed into the grid. The control design of this type of inverter may be challenging as several algorithms are required to run the inverter.

What if more than 15 inverters are connected to the grid?

If more than 15 inverters are connected to the grid, contact SUNGROW. • The transformer must be protected against overloading and short circuit. • The transformer is an important part of grid-connected PV generation system. The fault tolerance capacity of the transformer should be taken into account at all times.

How does an inverter work?

- The inverter circuit converts the DC power into grid-compliant AC power and feeds it into the grid.
- The AC filter filters the output AC component of high

frequency to ensure that the output current meets the grid requirements.

What are the cooling technologies of inverters?

At present, the cooling technologies of inverters include natural cooling, forced air cooling, and liquid cooling. The main application forms are natural cooling and forced air cooling.

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