
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 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.

How do I know if a grid connected inverter is working?

Observe the current that is shared on the load by the inverter, and the AC source. Spiking around the zero crossing can occur. These spikes may be mitigated by the user by selecting a different inverter configuration, or using a different modulation scheme. The verification of the grid connected mode of operation is complete.

How do I connect a solar inverter to a utility grid?

Step 1 Turn on the AC switch between the inverter and the utility grid. Step 2 Turn on the DC switch between the inverter and the PV modules. Step 3 Turn on the DC switch of the inverter. Inverter firmware version shown in this document is V1.00.00. Communication version: V1.00. The screenshots are for reference only.

How does a PV inverter state machine work?

The inverter state machine then sequences to checking for DC voltage. To feed current into the grid the DC voltage (which in case of PV inverters is provided from the panel or panel plus some conditioning circuit), it must be greater than the peak of the AC voltage connected at the output of the inverter.

What type of modulation is used in an inverter?

This reference design uses a modified unipolar modulation in which switches Q1 and Q2 are switched at a high frequency and switches Q3 and Q4 are switched at a low frequency (frequency of the grid). Table 2 lists the switching states of the inverter.

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