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Introduction to inverter equipment for small base station equipment

Overview

What does an inverter do?

An inverter converts DC voltage or current to AC voltage or current. You can also say that it transfers or converts power from a DC source to an AC load. The aim of this circuit is to supply AC power similar to the one that we receive at homes. Firstly, I am going to share some basic information related to inverters.

What are the applications of inverter?

There are various applications of inverter. Some of them are as follows: Inverters provide power supply when the grid power is not available. It provides backup during adverse weather conditions. Some advantages of inverter are as follows: Since inverter converts DC to AC it is useful during power outages.

Which type of inverter is used in low power applications?

This type of inverters is used in low power applications and also known as inverter leg. The circuit of single phase half bridge inverter consists of 2 choppers and a DC source with 3 wires. Full bridge inverters are also used for applications which require low power. The circuit consists of 4 choppers and a DC source with 3 wires.

What does an inverter do in an AC motor?

An inverter controls the frequency of power supplied to an AC motor to control the rotation speed of the motor. Without an inverter, the AC motor would operate at full speed as soon as the power supply was turned ON. You would not be able to control the speed, making the applications for the motor limited.

What are the different types of AC inverters?

The three most common types of inverters made for powering AC loads

include: (1) pure sine wave inverter (for general applications), (2) modified square wave inverter (for resistive, capacitive, and inductive loads), and (3) square wave inverter (for some resistive loads) (MPP Solar, 2015).

How does a general-purpose inverter work?

The pulses are smoothed by the motor coil, and a sine wave current flows. As a result, the output from a general-purpose inverter cannot be used for equipment other than motors. V/f control is a method of controlling a motor by supplying a specific current to the coil to output a specific torque.

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