

## ContainerPower Energy Solutions

# Outdoor power inverter charging



## Overview

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What is an inverter charger?

An inverter charger is a device that converts DC power from batteries to AC power, while also charging the batteries. All our Inverter Chargers from Sunshine Solar are pure sine wave inverters and generate an output voltage wave form that has a very low harmonic distortion, similar to mains supplied electricity.

Which power inverter chargers are available?

Inverters R Us carries a full line of power inverter chargers, including those manufactured by: Aims, Go Power!, KISAE, Magnum Energy, Samlex America, Spartan Power, Tripp Lite and Xantrex. Inverter chargers typically have a built in transfer switch that will sense when you are plugged into an AC source such as shore power or a generator.

Can inverters be installed outside?

As a rule, inverters designed for outdoor use may be installed either outdoors or indoors, however indoor inverters can only be installed indoors. The great majority of grid-tied or string inverters available today are designed for outdoor installation.

Can a grid-tied inverter be installed outside?

Like most electronic devices, inverters operate more efficiently at cooler temperatures. While most grid-tied inverters are designed for outside installation, they should not be mounted in direct sunlight, as this will degrade their efficiency. In addition to the lost output, the lifetime of the unit is likely to be shortened.

How to choose a site for installing an inverter?

When choosing the site for installing an inverter, it is essential that the environmental conditions specified by the manufacturer be maintained. There

are both temperature and humidity requirements for these devices.

Should PV inverters be shaded?

Even though PV financial models generally include inverter replacements over the lifetime of the system, designing an installation to prolong inverter life rather than shorten it is the most sensible strategy. Thus, even inverters that incorporate robust outdoor packaging should be kept shaded, even if it means installing an awning over them.

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