



PURKEYS

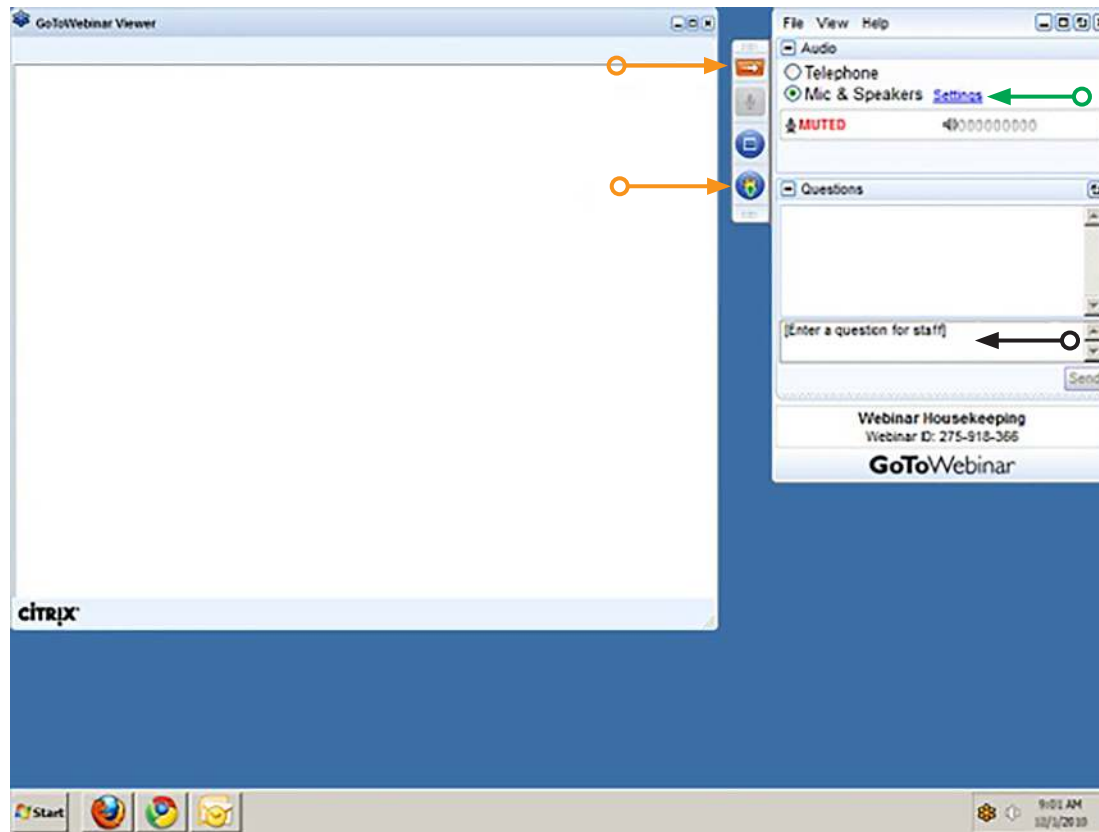
**SELECTING &
UNDERSTANDING
INVERTERS**

WATT Keeps You Trucking

House Cleaning

REMINDER:

This Webinar is being Recorded
Please Turn Off Cell Phones



About the Presenter



Larry Rambeaux | Southern Region Sales & Service Engineer

Larry has over 20 years' experience working with heavy duty fleets. He is an outstanding trainer and uses his extensive experience to help his customers make the best choices for their electrical needs.

He has been awarded the prestigious Recognized Associate Award from the Technology & Maintenance Council. Larry's knowledge of electrical systems enables him to help his customers identify and remedy a fleets' electrical issues.

1-800-219-1269
lrambeaux@purkeys.net

What is an Inverter?

Converts DC power from truck batteries to 110v AC power.

Allows drivers to use 110v household items on the road.

Very reliable but there are limitations.



Pure Sine vs. Modified Inverters



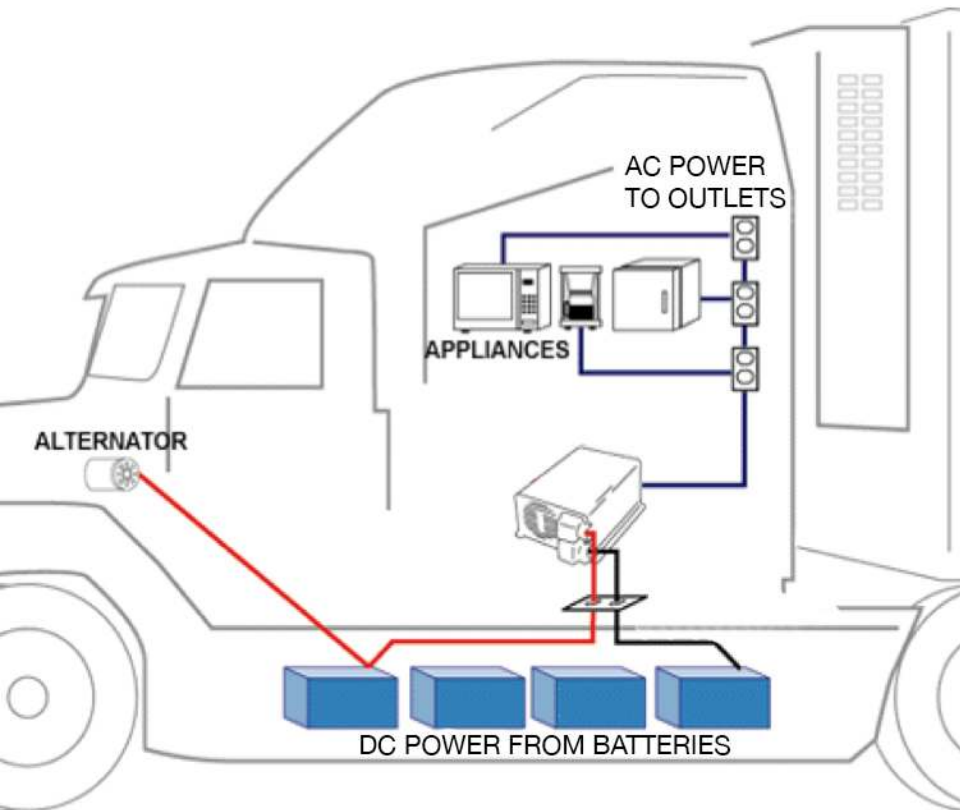
PURE SINE

A more pure sine wave.

MODIFIED

Slightly higher distortion.

How it Works



Power comes from the batteries

Through the floor pass through

To the Inverter inside the cab

To AC outlets and appliances

Selecting an Inverter

Questions to ask before selecting an inverter:

What 110v devices will be used? • What features need to be focused on?

What size of inverter is needed? • Is there a low voltage disconnect?

How often is it being used? • Any special inverter applications?



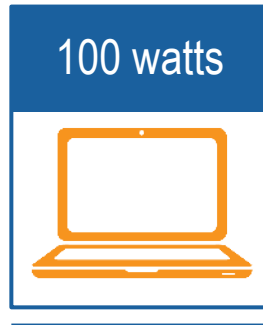
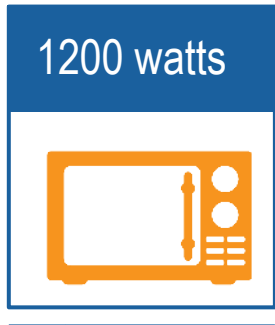
What an Inverter can do?

Best suited for low power or intermittent loads.



Determining the Inverter Size

Add up the wattage of all devices to determine the size.



1200 watts
+100 watts

1300 watts



Need a 1500 watt inverter



How Often is it Being Used?

DUTY CYCLE



Used multiple times a day?

Inverter must handle continuous usage

Light duty inverters may not handle it

Inverter Features



Environmental

Ring terminals on the DC connections



Battery Protection

Separate low voltage disconnect that shuts off before damaging the truck batteries.

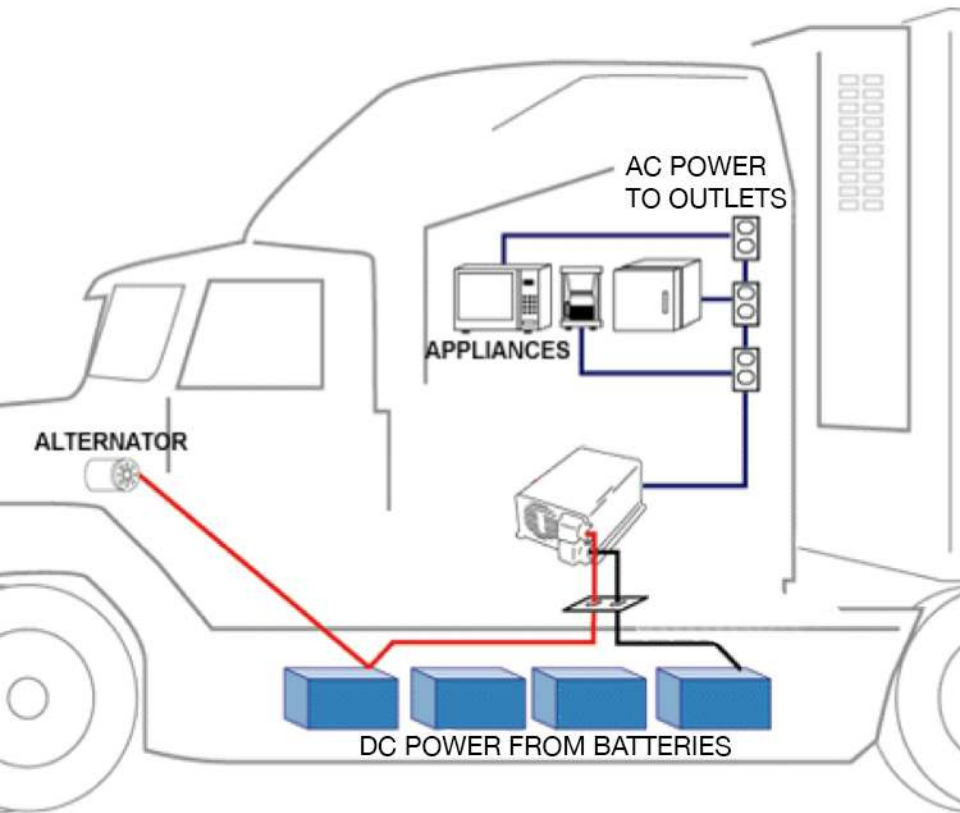


Safety Features

- Voltage protection
- Temp. shutdown
- Circuit breaker



What to Look For



Inverters discharge batteries

Look for inverters with a true LVD

No lower than 11.8 volts

This will reduce jumpstarts

Can increase battery life

Special Applications

CPAP machines require their own pure sine wave inverter.



The MDPS is portable and can travel from truck to truck with the driver.

Inverter Advantages

1

INVERTERS

A great way to retain drivers and keep them happy.

2

UNDERSTAND

There are limitations. Know what you need.

3

PROTECT

Use an inverter with intelligent controls.



Questions & Answers

Thank you!