



TECHNICAL Practice

TELECOM SOLUTIONS FOR THE 21ST CENTURY

PI-150W

**150W DC to AC
Power Inverter**

March 2, 2000

Power your Viking products from 12V DC

The **PI-150W** converts 12 Volts DC to 115 Volts AC with a maximum continuous output power of 150 Watts. The **PI-150W** will allow you to power **Viking** products or other 115V AC equipment of less than 150 watts from your vehicle, boat, RV, solar panel or other available 12V DC source.



The **PI-150W** is equipped with a lighted power switch, power input fuse, low battery alarm and low battery automatic shut down, allowing you to restart your vehicle as well as preventing you from deep-cycling your battery.

Phone...715.386.8861

Features

- 150 Watt continuous / 300 Watt surge output power
- Male cigarette lighter plug
- Single power receptacle with ground
- Lighted output power switch
- Low battery voltage alarm
- Automatic low battery voltage shut down
- Automatic thermal overload shut down
- 30 Amp input fuse
- High efficiency/ low operating current
- 1 year limited warranty

<http://www.vikingelectronics.com>

Applications

- Powering **Viking** model **DLE-200B** or **DLE-300** for emergency or off site communications
- Powering **Viking** doorboxes from 12V DC solar panels
- Powering any 115V AC equipment of less than 150 watts from 11 to 15V DC

info@vikingelectronics.com

Made in the U.S.A.

Specifications

Dimensions: 145mm x 69mm x 41mm (5.7" x 2.7" x 1.6")
Shipping Weight: 0.57 kg (1.25 lbs)
Environmental: -26° C to 54° C (-15° F to 130° F) with 5% to 95% non-condensing humidity
Maximum Current Draw with 12V Supply and 150 watt load: Approximately 13 Amps
Input Voltage: 11 to 15V DC
Output Voltage: 115V AC RMS (modified sinewave)
Output Frequency: 60 Hz +/- 1 %
Output Power: 150 Watts continuous / 300 watts peak
No Load Current Draw: 200mA
Low Battery Alarm: 10.4V +/- 0.5V DC
Low Battery Shut Down: 9.7V +/- 0.5 V DC
Efficiency: 90% at 75 Watts
DC Input Fuse: 30A

Installation

Note: For additional information please refer to the instruction manual supplied with the **PI-150W**, located in the bottom of the plastic shipping package.

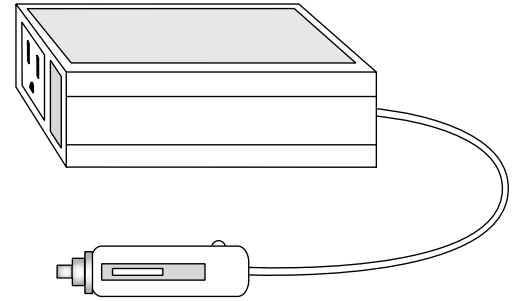
1. Connect the **PI-150W** to a DC power source between 11 and 15 volts which is capable of supplying sufficient current to operate the load. Use this formula to calculate the current:

[Load Wattage ÷ DC Supply Voltage = Required current in Amps]

Example: The load is rated at 100 watts and the supply voltage is 12VDC.

100 watts ÷ 12VDC = 8.3 Amps required from the power source

The **PI-150W** may be connected directly to a 12V battery by using an optional lighter socket with battery clips (Radio Shack part # 270-1527).



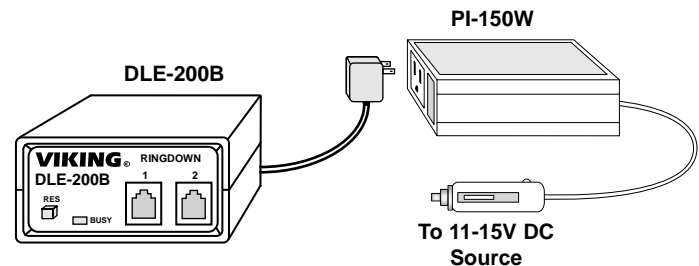
2. Turn on the power switch, which is located on the front of the inverter. The switch should illuminate indicating that the **PI-150W** is in operation.

Important: Verify the 115V AC product you're planning to power does not exceed 150 Watts then connect its power cord to the AC receptacle on the front of the **PI-150W**. If the product you're powering uses a power adapter it may interfere with the inverter's power switch, in which case an extension cord should be used.

A. Powering a DLE-200B

Viking's **DLE-200B** Line Simulator provides two way communication between standard telecom products such as modems, fax machines, key systems, PBX's, and standard single line phones.

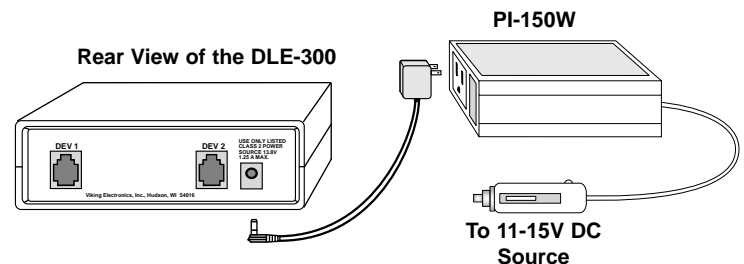
For more information on the **DLE-200B**, retrieve **Fax Back Document 605**.



B. Powering a DLE-300

The **DLE-300** Advance Line Simulator provides sales people, technicians, engineers, etc., with a cost effective and easy to use method of conducting on-site demonstrations, programming or diagnostics without the need to locate phone lines or disrupt customer phone service.

For more information on the **DLE-300**, retrieve **Fax Back Document 607**.

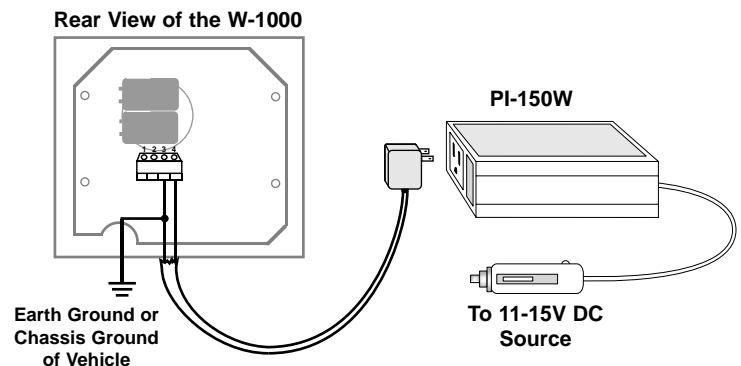


C. Powering a Viking W-1000, W-2000A or W-3000 doorbox

The **W-1000** (flush mount) and **W-2000A** (surface mount) doorboxes are designed to be installed on the unused telephone line input of nearly any phone system. One or two doorboxes can also share an existing residential phone line when used in combination with a **C-1000** doorbox controller. For a stainless steel doorbox with even more features, use the **W-3000**.

For more information on the **W-1000/2000A**, retrieve **Fax Back Document 170**. For more information on the **W-3000**, retrieve **Fax Back Document 180**.

Note: To eliminate any possible noise or hum on the doorbox. Connect pin 3 of the terminal block to earth ground or chassis ground if used in a mobile vehicle (see diagram below).



Product Support Line...715.386.8666

Fax Back Line...715.386.4345

Due to the dynamic nature of the product design, the information contained in this document is subject to change without notice. Viking Electronics, and its affiliates and/or subsidiaries assume no responsibility for errors and omissions contained in this information. Revisions of this document or new editions of it may be issued to incorporate such changes.