

200 WATT POWER INVERTER WITH USB

- | | | |
|----|--|----------------------------------|
| A. | OUTPUT VOLTAGE RANGE..... | 110-125 VOLT AC RMS |
| B. | MAX. CONTINUOUS POWER..... | 200 WATT |
| C. | SURGE CAPABILITY (PEAK POWER)..... | 400 WATT / 0.3 SECOND |
| D. | OPTIMUM EFFICIENCY..... | ≥ 75% |
| E. | NO LOAD CURRENT DRAW..... | ≤ 300 mA |
| F. | WAVE FORM..... | MODIFIED SINE WAVE |
| G. | INPUT VOLTAGE RANGE | 10.5 - 15 VOLT DC |
| H. | OUTPUT AMPERAGE RANGE..... | 1.6-1.8 AMP AC |
| I. | OUTPUT FREQUENCY (Hz)..... | 60 Hz (+/- 2 Hz) |
| J. | REPLACEABLE FUSE | 25 AMP |
| K. | AUTOMATIC ELECTRONIC CIRCUIT FEATURES: | |
| | a. HIGH INPUT VOLTAGE SHUTDOWN..... | > 15 VOLT DC |
| | b. LOW INPUT VOLTAGE ALARM..... | ≤ 11.5 VOLT DC |
| | c. LOW INPUT VOLTAGE SHUTDOWN..... | ≤ 10.5 VOLT DC |
| | d. OVERLOAD SHUTDOWN..... | ≥ 240 WATT |
| L. | SYSTEM DISPLAY: | |
| | a. SYSTEM NORMAL OPERATION..... | GREEN LED INDICATOR |
| | b. OVERLOAD | RED LED INDICATOR |
| | c. LOW/HIGH BATTERY..... | RED LED INDICATOR |
| M. | USB PORT..... | 5 VOLT DC/500 mA |
| N. | ENVIRONMENT OPERATIONAL CONDITIONS: | |
| | a. ELEVATION (ft.)..... | 0 to 10,000 feet above sea level |
| | b. OPERATING (°F)..... | -10°F to 110°F |
| | c. STORAGE (°F) | 5°F to 140°F |
| O. | PHYSICAL: | |
| | a. NET WEIGHT (lb.)..... | 0.97 lb. |
| | b. DIMENSIONS (in.)..... | 6.96" (H) x 3.02" (W) x 3.0" (D) |



WARNINGS

- This inverter must be connected only to a 12 Volt DC Negative Ground ignition system. Most vehicles are Negative Ground systems. Do not use this inverter with Positive Ground vehicle ignition systems. Consult your vehicle owner's manual for ignition system identification.
- Read and understand all operating instructions in this manual prior to operating this inverter to avoid damage to inverter, power source or device connected to the inverter.
 - Improper use of this inverter can cause personal injury, property damage, and/or loss of life.
 - Do not use this inverter with a device which uses more than 200 Watt power consumption. Make certain the wattage requirements are within the capacity of this inverter output power range.
 - Do not connect inverter to household or RV, AC distributing circuit.
 - Do not connect inverter to AC load circuit in which the neutral wire is connected to ground (-) or to negative of the DC battery power source.
 - Do not connect to a 6 Volt or 24 Volt DC battery
 - Do not exceed the maximum input voltage of 15 Volt DC (direct current).
 - Do not use or place this inverter near flammable materials or any location which accumulate flammable fumes.
 - Do not operate this inverter in or near water. Do not operate inverter using wet hands.
 - Do not touch tip of the inverter 12 Volt DC Accessory plug immediately after usage. The plug may be hot and could cause minor burns.
 - Do not allow the inverter cord or any operating device cord to restrict driving.
 - Disconnect power to the inverter when it is not in use.
 - **KEEP OUT OF REACH OF CHILDREN!**
 - To avoid potential property damage, do not leave this inverter or any device operating unattended in vehicle.

CAUTIONS

- Do not place this inverter in confined spaces or inside battery compartment of vehicle or boat. Use only in properly ventilated areas.
- Do not place item(s) over the inverter. Make sure that air is allowed to circulate freely around it.
- Do not place the inverter in direct sunlight or near any device which is generating heat above room temperature.
- Do not operate inverter in ambient air temperature below -10°F or above 110°F.
- Do not open the inverter housing case.
- Secure the inverter and device being operated to prevent them from moving while the vehicle is in motion.
- Do not use an AC (110 Volt) extension cord longer than 25 feet.
- Do not use a 12 Volt DC extension cord of any type or length.
- Start and run your vehicle hourly to prevent battery discharge.
- IMPORTANT: Turn off the inverter and device being used before engine start up.
- Regularly check that all connections are secure and tight. A loose connection can create high electrical resistance and generate excessive heat which will damage the inverter.
- Save these instructions for future reference.

TWO YEAR LIMITED WARRANTY

Rally Manufacturing is dedicated to making high quality products for every consumer. We are so confident in the quality of our merchandise that we offer a two year limited warranty with this product. That means should you find any defects with the item you purchased, we will repair it or replace it. Please mail all defective products to Rally Manufacturing Inc., 7600 Corporate Center Drive, Suite 400, Miami, FL 33126. Attn: Customer Service.

REPAIR OR REPLACEMENT OF THE DEFECTIVE PRODUCT OR COMPONENT PROVIDED UNDER THIS WARRANTY SHALL NOT APPLY IF THE PRODUCT: (a) IS USED FOR COMMERCIAL PURPOSES AND/OR FROM IMPROPER USE IN AN UNSUITABLE ENVIRONMENT (b) IS MODIFIED OR TAMPERED WITH EITHER INTERNALLY OR EXTERNALLY; (c) IS DAMAGED RESULTING FROM MISUSE, NEGLIGENCE, LACK OF REASONABLE MAINTENANCE AND CARE, OR BY OTHER CAUSES UNRELATED TO DEFECTIVE MATERIAL OR WORKMANSHIP; (d) IF THE PRODUCT HAS BEEN SUBJECTED TO FIRE, WATER, OR GENERAL CORROSION.

This warranty gives you specific legal rights, and you may also have other rights which vary from State to State in the U.S.A. or province to province in Canada.

WARNING: This product may contain chemicals known to the state of California to cause cancer, birth defects, or other reproductive harm. Wash hands after handling!

CUSTOMER SERVICE

Monday-Friday 8:30am-5:30pm Eastern Standard Time

**For Questions or comments contact us at:
www.rallymfg.com or call 1-800-965-4407**



TYPICAL USE AND WATTAGE

This listing is for reference purpose only. Some devices exceed the wattages listed. Before using device, refer to device owner's manual for actual wattage required.

Glue Gun	20 Watt
Hi Power Spotlights	150 Watt
Cordless Drill Charger (7 Volt)	15 Watt
1/4 HP Power Buffer	110 Watt
Spot Lights/Work Lights	100 Watt
Computer 15" Monitor	135 Watt
Laptop Computer	90 Watt
Fax Machine	170 Watt
AM/FM Stereo (100 Watt)	100 Watt
13" Color TV	70 Watt
VCR	45 Watt
CD Changer	65 Watt
27" Color TV	160 Watt
Cellular Phone Charger	30 Watt
Camcorder Charger (6 Volt)	25 Watt
Air Compressor Charger	90 Watt
TV/ DVD Combo 20"	120 Watt
iPod®	5V/500mA
PSP®	5V/500mA



POWER SOURCE

This inverter must be connected to a 12 Volt DC Negative Ground ignition system battery in good condition. Most vehicles are negative ground systems (see vehicle owner's manual for ignition system identification).

DETERMINE POWER REQUIREMENT

To determine maximum power required, add up the wattage of all devices to be operated with this inverter simultaneously. If the wattage of the devices is not available, but the current draw (amp) is given, simply convert to wattage using this formula:

Volt (V) x Amp (A) = Watt (W)
Example: 110 Volt x 1.8 Amp = 198 Watt

OPERATING INSTRUCTIONS

A. 12 VOLT DC ACCESSORY PLUG CONNECTION

1. Prior to connecting inverter, make sure the inverter ON/OFF rocker switch is in the OFF position.
2. Insert the inverter 12V DC accessory plug into the vehicle cigarette lighter or 12V DC accessory socket. Push it in firmly to ensure a proper connection has been made.



B. PLUGGING IN DEVICE(S)

SYSTEM NORMAL OPERATION	GREEN LED INDICATOR
OVER LOAD	RED LED INDICATOR
LOW/HIGH BATTERY	RED LED INDICATOR

1. Prior to plugging in device(s), make sure the device(s) are OFF.
2. Connect the device(s) electrical plug(s) into the inverter receptacle(s).
3. Press the inverter ON/OFF switch, to ON position. If the inverter is working properly, a green LED indicator on the top panel will light. Now turn ON the device(s). If the green indicator remains ON, then the system is operating properly. If the inverter red LED indicator light turns ON, turn OFF the device(s) then turn OFF the inverter immediately. See the troubleshooting guide. The inverter may have been overloaded or the input voltage may be too low.

IMPORTANT: To achieve inverter maximum power output, user must run vehicle while the inverter is in use.

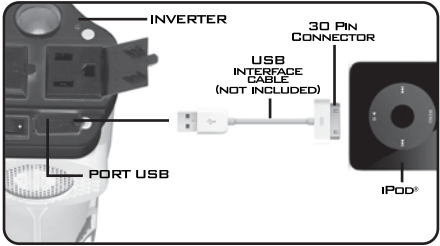
⚠ CAUTION

FOR AC DEVICES THAT EXCEED 100 WATT POWER DRAW, INVERTER MUST BE CONNECTED TO A DC SOCKET RATED AT 20 AMP OR HIGHER. Some rechargeable devices are equipped with a separate charger, which can be connected into this inverter AC receptacle. The Rally inverter is engineered to be used with these products. However, certain rechargeable devices are manufactured with built-in chargers (see device owner's manual). This category of devices may cause internal damage to inverters and should not be used with this inverter. The temperature of the device must be monitored for the first 15 minutes of operation. Abnormally elevated temperature of the device is an indication that they should not be used with this inverter.

C. USB PORT OPERATION

1. Connect your Cell Phone, PSP, MP3 Player or any other device that can be charged or powered via a USB terminal, into the 200 Watt Inverter USB port. Make sure the device USB connector plug is properly seated into the inverter USB port.
2. Your USB device with built-in rechargeable battery will start charging automatically.
3. Turn ON the USB device and operate as needed.
4. To stop charging or powering your USB device, you must first turn OFF the USB device.
5. Disconnect your device from the inverter USB power port.

NOTE: The USB port does not support data transfer. It will only power and/or recharge USB personal device(s).



IMPORTANT

The Inverter USB power port is configured to charge and operate iPod® and iPhone® products, however certain “new generation” models will not function or operate properly. User is advised to have the iPod® and iPhone® product software updated via the official Apple website.

TROUBLESHOOTING GUIDE

TROUBLE	CAUSE	REMEDY
Lack of power output	<ol style="list-style-type: none"> 1. Power source voltage below 10.5 Volt. 2. Excessive current drawn by appliances being operated. 3. Vehicle 12V DC socket not working. 4. Inverter not completely warmed up. 5. Inverter fuse blown. 	<ol style="list-style-type: none"> 1. Recharge vehicle battery or replace power source. 2. Reduce load to maximum 200 Watt. 3. Turn ignition to accessory ON position. 4. Turn OFF the AC device and inverter. Disconnect device connected to inverter. Turn the inverter ON and leave running for a minimum of 2 minutes. Turn OFF inverter, quickly plug in AC device to inverter making sure the AC device is OFF prior to connection, turn ON the inverter and the device. 5. Replace 25 A rated fuse. To replace FUSE: Locate FUSE HOLDER on inverter bottom panel. REMOVE fuse with needle nose pliers and replace with equivalent 25 AMP FUSE.
LED Light Red	<ol style="list-style-type: none"> 1. Inadequate power or excessive voltage drop. 2. Poor battery condition. 3. Inverter is overloaded. 	<ol style="list-style-type: none"> 1. Check inverter 12 Volt DC accessory plug to socket connection. Clean or replace as required. 2. Start the engine to recharge the battery. Make sure inverter is turned OFF before starting engine. Replace battery if required. 3. Replace load to maximum of 200 Watt.
Television/ Power Tool will not start	<ol style="list-style-type: none"> 1. High surge wattage requirement to start-up. 	<ol style="list-style-type: none"> 1. Toggle the ON/OFF switch in quick succession a total of 5 times in order to generate the necessary power to start the device. If the device does not turn ON or start up in 5 cycles of ON/OFF trials. This inverter will not work with the device.
Television Interference	<ol style="list-style-type: none"> 1. Picture breaking up (snow) 	<ol style="list-style-type: none"> 1. Place the inverter as far as possible from TV, the antenna and the coaxial cable. 2. TV station may be out of range.
Static/Noise interference in audio system	<ol style="list-style-type: none"> 1. Sound system has weak alternating current shielding. 	<ol style="list-style-type: none"> 1. Do not use inverter with low quality audio AC filtering system. 2. Replace audio system with high quality noise filtering.
Fuse Blown	<ol style="list-style-type: none"> 1. Reverse battery polarity connection. 	<ol style="list-style-type: none"> 1. Turn OFF inverter and AC voltage device. Disconnect inverter from battery power source. Replace fuse. Reconnect to proper battery polarity.
MP3 player, iPod® or iPhone® device failed to charge via the USB port	<ol style="list-style-type: none"> 1. MP3 player, iPod® or iPhone® device not properly connected. 	<ol style="list-style-type: none"> 1. Check MP3 player, iPod®, or iPhone® device interface cable connections.