

Elite 200W PRO DC to AC Pure Sine Inverter



Elite™ 200W PRO by Wagan Tech®

Thank you for purchasing the Wagan Tech® Elite™ 200W PRO Pure Sine Wave DC to AC Power Inverter. Elite™ 200W PRO represents numerous improvements to our standard pure sine that meet the needs of more demanding environments—delivering clean quality power at an affordable price. It delivers a true sine wave AC identical to that of commercial power. Use this inverter to power AC appliances in your vehicle or off-grid backup power systems. Pure Sine Wave AC means that your sensitive electronics, such as audio/video systems, computers, and communications equipment will operate properly. Furthermore, appliances with motors operate cooler, quieter, and more efficiently when they are powered by sine wave AC.

This inverter is powered from 12 volts DC and it will continuously deliver 200 watts (400 watts momentary peak) AC power at 120 volts, 60 Hz. Superior surge capability of 400 watts allows the inverter to start most difficult motorized appliances. Advanced microprocessor-controlled circuits run cooler and are more reliable than competing units. The DC terminals have been designed apart from each other to ease installation and minimize the risk of accidental shortage when handling the DC cables.

The Elite™ 200W PRO also operates at high efficiency (up to 90%), that results in long run time and extended battery life compared to other inverters with this level of power output. Neutral to ground bond, just like utility power.

A 2.1A USB Power Port provides a convenient way to power USB appliances or charge smartphones, tablets and e-readers, and other mobile electronic devices.

This Inverter is supplied with a cord that connects the inverter to a DC power supply.

The enclosure vents have been minimized to reduce the risk of pest intrusion in arid tropical climates. This Wagan Elite™ 200W PRO Pure Sine Wave Inverter is an indispensable addition to your compliment of mobile power equipment. With minimal care and proper treatment, it will provide years of reliable service.

Read and understand this manual before installing and operating this inverter. Keep this manual for future use.



SPECIFICATIONS*

Output waveform	Pure sine wave
Input	12V DC
Output	120V AC
TrueRated Power™	200 watts
Peak surge	400 watts
Efficiency	> 90%
Frequency	60Hz
Total harmonic distortion (THD)	< 3%
No load current draw	< 0.4A
Battery low alarm	10.5V ± 0.5V DC
Battery low shutdown	9.5V ± 0.5V DC
Over voltage shutdown	15.5V ± 0.5V DC
Cooling fan	Thermally controlled
AC output sockets	2
USB power port	2.1A, 5V ± 0.25V
Power switch AC output	ON/OFF control
Dimensions (body only)	6.2 in. × 4.1 in. × 2.0 in. (15.8 cm × 10.5 cm × 5.2 cm)
Net weight (approximate)	1.5 lbs (0.7 kg)

^{*}All specifications are typical at nominal line, half load, and 77°F (25°C) unless otherwise noted. Specifications are subject to change without notice.

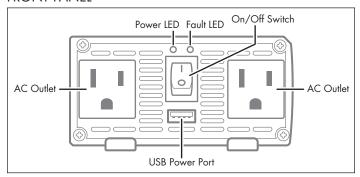
WARNING

INVERTER OUTPUT CAN BE LETHAL. IMPROPER USE OF THIS INVERTER MAY RESULT IN PROPERTY DAMAGE, PERSONAL INJURY OR LOSS OF LIFE.

- Keep the inverter away from any direct heat source or combustible materials.
- Keep well ventilated—this device generates heat.
- Keep this inverter in a dry environment.
- Do not operate any equipment over 200 watts.
- This inverter is designed to operate from a 12 volt DC power source only.
- Do not attempt to connect the inverter to any other power source, including any AC power source.
- Incorrect battery polarity will damage the inverter and void the warranty.
- Do not open the inverter; there are no user serviceable parts inside.
- This inverter has an included 31.5 in. (80 cm) cable with 12V accessory plug adapter.



FRONT PANFI

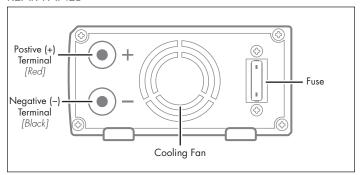


- ON/OFF Switch This switch controls AC output of the inverter.
- Operating LED (Green) When this green LED is lit, the inverter is operating normally.
- FAULT LED (Red) The RED indicator turns on as the inverter shuts down due to overheating, overload, under voltage, or over voltage.
 - Immediately turn off all AC appliances if the FAULT LED is lit. Allow the inverter to cool before continuing. Make sure that the ventilation vents are not blocked.
 - If an inverter shutdown was preceded by a buzzing sound, there
 may be an excessive load in combination with a low voltage or cable
 problem.
- AC Outlets These outlets can supply up to 3.3 amps at 120V AC 60 Hz
- USB Power Port This power port can supply 5 volts at 2.1A for charging or powering smartphones, tablets and e-readers, MP3 players, GPS and other small electronic devices.

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Audible Alarm (internal to the inverter) — When the Audible Alarm makes
a buzzing sound, the inverter senses a low battery condition. The user
should reduce the AC load, charge the battery, and check the DC cable for
excessive losses.

REAR PANEL



- Positive Terminal Positive (+) DC Input (Red)
- Negative Terminal Negative (-) DC Input (Black)
- Cooling Fan High-speed and load controlled
- Fuse Replaceable external fuse

IOAD CONSIDERATIONS

The startup load of an appliance is a major factor of whether this inverter can power it. This initial load is only momentary. With many appliances, it is approximately twice the continuous load, but some appliance startup loads can be as high as eight times the continuous load.



User's Manual—Read before using this equipment

To determine if an appliance or tool will operate with this inverter, first run a test. The inverter will automatically shut down in the event of an output overload so there is no danger of damaging either the inverter or the equipment. When the red LED indicator is lit, the inverter is signaling a fault.

Maximum Power from Vehicular Accessory Sockets

Most vehicular accessory sockets that are controlled through a vehicle's ignition switch are fused at 15 amps. This limits inverter output to approximately 180 watts.

To Power 200 Watt Appliances:

- For temporary use, connect a battery clip adapter cord (not included) to the inverter and follow the procedure located under the "Connecting the Inverter" section.
- Install a separate fused DC accessory socket wired to the vehicle's battery. Fuse this circuit at 20 amps.

There is no danger in leaving the inverter directly wired to the battery if the inverter is turned OFF after each use. The inverter will shut off when the vehicle's battery level drops down to 9.5 volts to protect the battery from draining completely.

DETERMINING MAXIMUM APPLIANCE WATTAGE

Do not exceed the 200 watt maximum AC load or the inverter will shut down.

Most electrical tools, appliances, and audio/video equipment have labels that list the unit's power requirements in watts. If the tool or device is rated in amps, multiply the amps by 120 (120V AC) to determine the watts. For example, an appliance rated at 0.5 amps will draw 60 watts.

WATTS = VOLTS × AMPS

Remember to consider the startup surge that motorized appliances will cause. Do not exceed the 400 watt momentary surge rating of this inverter. This can cause

immediate overload shut down and or blow a fuse. The fuse on this inverter is external and replaceable for this purpose.

CONNECTING THE INVERTER

DC Plug Adapter Cord

- Connect the red (+) and black (-) terminals of the supplied DC Plug Adapter Cord to the red (+) and black (-) terminals on the rear of the inverter.
 - Be sure to connect them into the correct polarity terminals on the rear
 of the inverter. Reverse polarity connection will blow the fuse in the
 inverter and can permanently damage to the inverter. Damage caused
 by reverse polarity will void the warranty.
- Connect the Plug end of the DC Adapter Cable into your vehicle's 12V DC
 accessory outlet. You may need to place the ignition switch to Accessory
 Position if the vehicle engine is not operating.
- Plug the AC appliance cord into the inverter's AC receptacle, and/or your USB appliance into the USB power port.
- Place the ON/OFF power switch in the "ON" position. The green LED should turn on, indicating the inverter is powered and operating normally.
- When the inverter is not in use, place the inverter's ON/OFF Power Switch to the "OFF" position. We recommend also unplugging the DC Adapter cable from the vehicle's DC outlet.

OPERATING ISSUES: TELEVISION AND AUDIO EQUIPMENT SUGGESTIONS.

Although all inverters are shielded and filtered to minimize signal interference, some interference with your television picture may be unavoidable, especially with weak signals. However, here are some suggestions that may improve reception.



User's Manual—Read before using this equipment

- Make sure that the television antenna produces a clear signal under normal operating conditions (i.e. plugged into a standard 110V/120V AC wall outlet). Also ensure that the antenna cable is of good quality and properly shielded.
- Sometimes vehicle alternators produce some electrical noise. There are filters available to mount on the alternator to reduce the noise.
- Change the positions of the inverter, antenna cables, and television power cord.
- Isolate the television, its power cord, and antenna cables from the 12 volt power source by running an extension cord from the inverter to the television.

TROUBLESHOOTING

PROBLEM: Low or No Output Voltage - Fault LED Lit

Reason	Solution
Poor contact with battery, inverter terminals, or DC socket.	Clean terminals thoroughly. Reinstall and tighten. Clean DC socket with non- metallic abrasive emery stick.

PROBLEM: No Output Voltage - No LEDs Lit

Reason	Solution
Blown fuse.	Check vehicle's Accessory Socket Fuse. If the fuse is blown, replace with the same type and rating fuse.

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PROBLEM: Inverter Auto Shut Down - Fault LED Lit

Reason	Solution
Battery voltage is below 9.5 volts.	Charge or replace battery.
Inverter is too hot (thermal shut down mode).	Allow inverter to cool. Check for adequate ventilation. Reduce the load on the inverter to the specified TrueRated™ power max output.

PROBLEM: Inverter Shut Down - Fault LED Lit

Reason	Solution
Equipment being operated draws too much power.	Do not use the equipment with this inverter; use a higher wattage inverter.

PROBLEM: Continuous Buzzing Sound

Reason	Solution
Input voltage is below 10.5 volts .	Keep input voltage above 10.5 volts .
Poor or weak battery condition.	Recharge or replace battery.
Poor or loose cable connection.	Inspect terminals and tighten all connections.
Inadequate power being delivered to the inverter or excessive voltage drop.	Use heavier gauge DC cables. Keep cable length as short as possible.

DISPOSAL/RECYCLING OF INVERTER

Electronic products are known to contain materials that are toxic if improperly disposed. Contact local authorities for disposal and recycling information.



WAGAN Corp. Limited Warranty

The WAGAN Corp. warranty is limited to products sold only in the United States.

All Wagan Tech products must be registered within (30) days of purchase to activate its warranty. To register your product, please visit http://tinyurl.com/waganwarranty. Be sure to keep the original receipt as it will be required when returning a product under the warranty.

Warranty Duration: This product is warranted to the original purchaser for a period of two [2] years from the original purchase date, to be free of defects in material and workmanship. WAGAN Corporation disclaims any liability for consequential damages. In no event will WAGAN Corporation be responsible for any amount of damages beyond the amount paid for the product at retail.

Warranty Performance: During the above two (2) year warranty period, a product with a defect will be replaced with a comparable model when the product is returned to WAGAN Corporation with an original store receipt. The replacement product will be in warranty for the balance of the original two (2) year warranty period.

To return a defective item, please contact WAGAN Corporation at (800) 231-5806 to obtain a Returned Merchandise Authorization number (RMA#), and return instructions. Each item returned will require a separate RMA#. After you have received the RMA# and the return instructions from WAGAN Corporation, please follow the instructions and send the item with PREPAID SHIPPING, along with all of the required documentation, a complete explanation of the problem, your name, address and daytime phone number. WAGAN Corporation will, at its option, replace or repair the defective part.

A Returned Merchandise Authorization number (RMA#) is REQUIRED when sending in any defective item. WAGAN Corporation is not responsible for any item(s) returned without an official Returned Merchandise Authorization number. The item(s) must be returned with prepaid shipping. WAGAN Corporation is not responsible for any shipping charges incurred in returning the item(s) back to the company for repair replacement. This warranty is void if the product has been damaged by accident, in shipment, unreasonable use, misuse, neglect, improper service, commercial use, repairs by unauthorized personnel or other causes not arising out of defects in materials or workmanship. This warranty does not extend to any units which have been used in violation of written instructions furnished.

Warranty Disclaimers: This warranty is in lieu of all warranties expressed or implied and no representative or person is authorized to assume any other liability in connection with the sale of our products. There shall be no claims for defects or failure of performance or product failure under any theory of tort, contract or commercial law including, but not limited to negligence, gross negligence, strict liability, breach of warranty and breach of contract.

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