

**Ampeak**

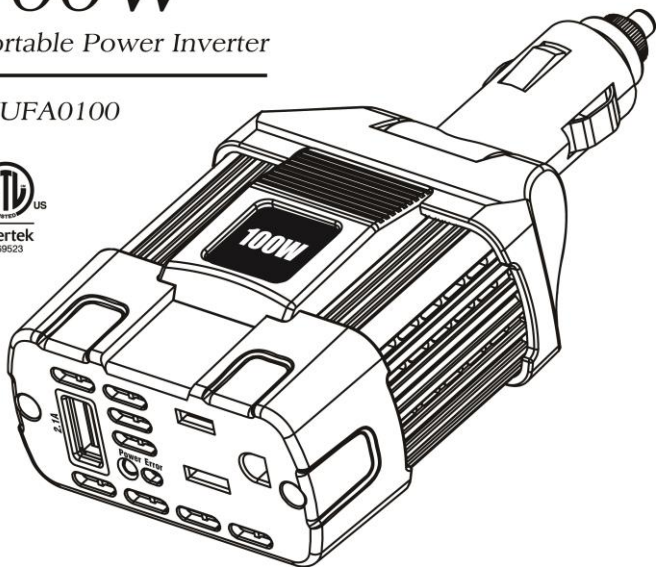
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# 100W

Portable Power Inverter

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IVUFA0100



OWNER'S MANUAL  
GUIDE D'UTILISATION



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Thank you for purchasing this AMPEAK product. All AMPEAK products are produced to the highest quality. When connected to a 12V DC power source, the inverter efficiently and reliably supplies 115V/60Hz AC power for a wide variety of appliances, such as cell phone, TV sets, gaming systems, cell phones and portable entertainment devices. Our line of power inverters is designed to meet and exceed your quality expectations with ETL certification. With proper care and appropriate usage, this inverter will give you years of dependable service in your car, truck, RV and boat. Perfect for traveling and outdoor activities.



**To reduce the risk of injury, please read this instruction manual and retain for future reference.**

Should you have any questions or need any support, please contact us at [support.us@ampeak.com](mailto:support.us@ampeak.com)

## **IMPORTANT SAFETY INFORMATION**

### **SAFETY STATEMENT:**

It is the responsibility of the owner to make sure all personnel read this manual prior to using the device. It is also the responsibility of the device owner to keep this manual intact and in a convenient location for all to see and read. If the manual or product labels are lost or not legible, contact AMPEAK for replacements or an electronic edition. If the operator is not fluent in English or French, the product and safety instructions shall be read and discussed with the operator in the operator's native language by the purchaser/owner or his designee, making sure that the operator comprehends its contents.



**READ ALL WARNINGS AND FOLLOW ALL INSTRUCTIONS BEFORE OPERATING THIS PRODUCT!**

### **WARNING: RISK OF SHOCK, FIRE AND EXPLOSION**

- The inverter produces the same potentially lethal AC power as normal household outlets. It is suggested that you treat it as normal AC outlet.
- DO NOT insert foreign objects into the AC outlet, the USB port, or the ventilation hole.
- DO NOT use this product where there are flammable fumes or gases,

such as in the bilge of a gasoline-powered boat, or near propane tanks.

- NEVER smoke or allow a spark or flame in vicinity of the engine or batteries.
- Make sure the inverter wiring is of proper size and rating and in good condition. Operating the inverter with damaged wiring may void warranty.

### **CAUTION: PERSONAL SAFETY & EQUIPMENT DAMAGE**

- Keep away from children, this is not a toy.
- DO NOT attempt to fix the unit by disassembling or modification. You can cause self-injury and disassembling and modifying the unit will void your warranty.
- Disconnect DC power source from the inverter, before attempting to service, clean or operate on any circuits connected to inverter. Simply turning OFF the ON/OFF switch of the inverter will not disconnect the power, thereby causing electric shock.
- Never connect the inverter to any power distribution systems or branch circuits.
- DO NOT make any electrical connections or disconnections in areas designated as ignition protected. This unit is NOT approved for ignition protected areas.
- Connect the unit to power source with a normal output of 12V DC

ONLY. 6V battery voltages are too low and 24V battery voltages are too high, which will damage the unit.

- DO NOT use the inverter in temperatures above 104°F (40°C) or below 32°F (0°C).
- DO NOT expose this product to water, rain, snow, condensation, or spray.
- DO NOT connect the unit to live AC power circuits or there will be damage to the inverter.
- DO NOT connect any AC device which has its neutral conductor connected to ground to the unit.
- DO NOT use the inverter with medical devices since it is not approved for medical applications.
- DO NOT use the inverter beyond its rated wattage capacity. Add the total watts of all connected appliances and be sure the total is less than the inverter's capacity.
- DO NOT permanently install the unit in the engine compartment. Certain chargers for small nickel cadmium batteries can be damaged if connected to the inverter.
- DO NOT connect these 3 particular types of equipment:
  1. Small battery-operated appliances such as flashlights, razors and night lights that can be plugged directly into an AC receptacle to recharge.
  2. Certain battery chargers for battery packs used in hand power

tools.

Check for a WARNING label stating dangerous voltages are present at the battery terminals.

- \* This problem does not occur with the vast majority of battery-operated equipment

- \* The output of the inverter is non-sinusoidal.

3. Positive ground electrical systems will result in a blown fuse and may cause permanent damage to the inverter and void the warranty.

- \* The majority of modern automobiles, RVs and trucks belong to negative ground electrical system.

- Some equipment may be damaged by the inverter's modified sine wave output (non-sinusoidal) or will not work. Below is a general list.

1. Electronics that modulate RF (radio frequency) signals on the AC line.

2. Speed controllers found in some fans, power tools, kitchen appliance, and other loads.

3. Some chargers for small rechargeable batteries.



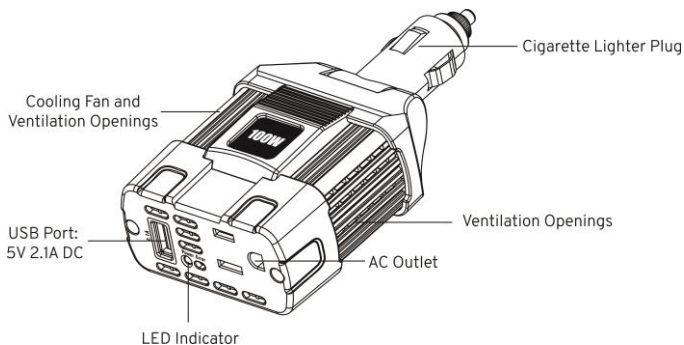


**This product may contain one or more chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. Wash hands thoroughly after handling.**

**NOTE:**

If you are unsure about using your rechargeable appliance with the inverter, contact the equipment Ampeak to determine the rechargeable appliance's compatibility with the inverter.

## FEATURES



## OPERATING INSTRUCTIONS

Before operating the inverter, make sure the location meets the following conditions.

Dry	DO NOT drop or pour any liquid on the inverter.
Cool	Keep the inverter from direct sun lighting. Maintain the ambient air temperature between 32°F (0°C) and 104°F (40°C).
Safe	DO NOT operate in the same compartment as stored flammable liquids and gasoline.
Clean	DO NOT operate the inverter in an area that is prone to dirt, dust or debris.
Ventilated	Leave at least 2" (5cm) clearance around the inverter for air flow. Make sure the ventilation openings are not obstructed.



**WARNING:**

- The equipment or appliance's switch should be in the "OFF" position prior to plugging into the AC receptacle of the inverter.



**CAUTION! AVOID OVER-DISCHARGING THE BATTERY:**

When using a vehicle battery as a power source, it is strongly recommended to start the vehicle every hour or two to recharge the battery before its capacity drops too low. Remember to recharge attached battery immediately after use. Most vehicle batteries are not

designed for constant “deep discharge” • Constantly operating the inverter from a vehicle battery until the low voltage shutdown will reduce the life of the battery.

## **USING THE INVERTER**

1. Insert the 12 volt cigarette lighter plug into the 12V DC accessory socket in the vehicle.
2. Plug in your appliance and switch them on one at a time.
3. When the inverter is not in use, disconnect the 12V cigarette lighter plug from the 12V socket to avoid draining the battery power.



### **CAUTION:**

Ensure that the electrical system in your vehicle can supply this product without causing the vehicle fusing to open. Information on the vehicle fuse ratings are typically found in the vehicle operator's manual.

Formulas:

$$\text{Volt (V)} \times \text{Amp (A)} = \text{Watt (W)}$$

$$\text{Watt (W)} / \text{Volt (V)} = \text{Amp (A)}$$

$$\text{Example: } 300\text{W} / 12\text{V} = 25\text{A}$$

## TROUBLESHOOTING

Problem	Cause	Solution
No Power No Indicator	Blown fuse	Check and replace fuse.
	Loose connection	Check the connection and tighten as required.
Strobe Green LED	AC products connected rated at more than the wattage load of the inverter: overload shutdown has occurred.	Reduce load. Use a product with starting surge power within the inverter's capability.
	AC products are less than the wattage load of the inverter, but high starting surge has caused overload shutdown.	Use a product with starting surge power within the inverter's capability.
	The voltage input from the DC power source is too low.	Charge the power source battery.
	The voltage input from the DC power source is too high.	Use 12V DC power source ONLY.

	Thermal shutdown has occurred.	Allow the unit to cool down. Improve air circulation around the unit. Relocate unit to a cooler environment. Reduce load if continuous operation is required.
Water entered the unit	Water entered the unit.	Disconnect the inverter and wipe immediately with a dry cloth, or permanent damage can occur.

## **Interference with Electronic Equipment**

Generally, most AC products operate with the inverter just as they would with household AC power. Below is information concerning two possible exceptions:

### **1) Buzzing in Audio Systems and Radios**

Some stereo systems and AM-FM radios have inadequate internal power supply filtering and "buzz" slightly when powered by the inverter. Generally, the only solution is an audio product with a higher quality filter.

### **2) Television Interference**

The inverter is shielded to minimize its interference with TV signals. However, when weak, TV signals interference may be visible in the form of lines scrolling across the screen. The following should minimize or eliminate the problem:

- Increase the distance between the inverter and the TV antenna and cables.
- Adjust the orientation of the inverter, television, antenna and cables.
- Maximize TV signal strength by using a better antenna and use shielded antenna cable where possible.

## SPECIFICATIONS

Model No.:	IVUFA0100
Description	100W Inverter
AC Output Voltage	105V-125V AC
Maximum Continuous Power Output	100W
Surge Output Wattage	200W
AC Output Frequency	60±1 Hz
AC Output Waveform	Modified sine wave
DC Output (USB)	5V DC 2.1A
DC Input Voltage Range	11V-15V DC
Battery Drain with no AC Load	<0.4A (at a 12V input)
Low Battery Resume	12.0±0.3V DC
Low Battery Shutdown Protection	10.5±0.3V DC
High Battery Shutdown Protection	15.5±0.5V DC
Overload Shutdown Protection	Strobe Green LED
Overheat Shutdown Protection	Strobe Green LED
Short Circuit Shutdown Protection	Strobe Green LED
Reverse Connection Protection	No Indicator lights
Fuse	10A slip fuse (Not user-replaceable)
Ambient Working Temperature	32°F (0°C) - 104°F (40°C)
Efficiency (Maximum)	85%



**Note:**

Please keep in mind most devices require an initial surge of power to start. Most devices can be started up with 2 times their power rating. Be aware of the startup power (surge) of the device(s) you intend to use for the inverter.

**LIMITED WARRANTY****1 Year Limited Warranty Policy**

The 1 Year Limited Warranty Policy is the only one that applies to this unit, and it sets forth all the responsibilities of Ampeak. There is no other warranty, other than those described herein. Any implied warranty of merchant ability of fitness for a particular purpose on this unit is limited in duration to the duration of this warranty. This unit is warranted to the original purchaser only to be free of defects in materials and workmanship for one year from the date of purchase without additional charge. The warranty does not extend to subsequent purchasers or users.

Ampeak will not be responsible for any amount of damage in excess of the retail purchase price of the unit under any circumstances. Incidental and consequential damages are specifically excluded from coverage under this warranty. This unit is not intended for commercial use. This

warranty does not apply to damage to units from misuse or incorrect installation/connection. Misuse includes wiring or connecting to improper polarity power sources.

### **RETURN/REPAIR POLICY:**

If you are experiencing any problems with your unit, please contact Ampeak Customer Service Department at [support.us@ampeak.com](mailto:support.us@ampeak.com) before returning product to Amazon.

After speaking to a customer service representative, if products are deemed non-working or malfunctioning, the product may be returned to Amazon within 30 days of original purchase.

Any defective unit that is returned to Amazon within 30 days of the date of purchase will be replaced free of charge or full refunded at buyer's option.

If such a unit is returned more than 30 days but less than one year from the purchase date, manufacturer will repair the unit or, at its option, replace it, free of charge. If the unit is repaired, new or reconditioned replacement parts may be used, at manufacturer's option. A unit may be replaced with a new or reconditioned unit of the same or comparable design. The repaired or replaced unit will then be warranted under the terms of the remainder of the warranty period.

## LIMITATIONS

This warranty does not cover accessories, such as adapters and batteries, damage or defects result from normal wear and tear (including chips, scratches, abrasions, discoloration or fading due to usage or exposure to sunlight), accidents, damage during shipping to our service facility, alterations, unauthorized use or repair, neglect, misuse, abuse, failure to follow instructions for care and maintenance, fire and flood.

