



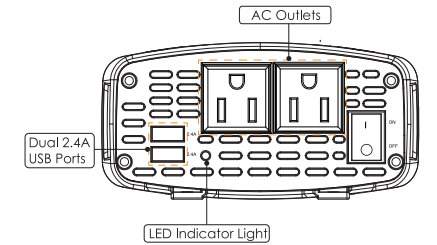
400 Watts Safe Power Inverter

Instruction Manual



12-Volt DC to 110-Volt AC
with Dual USB Ports & Two AC Outlets

Overview



Inverter Operation

1. Insert the inverter's DC plug into the vehicle's 12-Volt cigarette lighter socket.
2. Plug your AC product into the 110-Volt AC outlet on the Inverter, switch AC product on.

What is included ?



Specifications

Battery Input:	
1	Continuous Input Voltage: 12V
2	DC Voltage Input Range: DC 11V~15V
3	DC Input Low Voltage Warning: 10.5V±0.5V
4	DC Input Low Voltage Shutdown: 9.5V±0.5V
5	DC Input Low Voltage Recovery: 11.5V±0.5V
6	DC Input Overvoltage Protection: 16V±0.5V
8	DC Input Fuse: 25A (2Pcs)

Inverter Output:	
1	AC Output Voltage: AC 100V~120V
2	Output Continuous Power: 400 Watts
3	Output Overload Power: >450 Watts
4	Output Surge Power: 800 Watts
5	AC Output Frequency: 60±1Hz
6	Output Voltage Waveform: Modified Sine Wave
7	Full Load Efficiency: ≥86%
8	Inverter Overheat Protection: Internal Electronic Components of Inverter Temperature > 105°C/221°F
9	USB Output Voltage: 5V
10	USB Output Current: Dual 2.4A
11	Operating Temperature: -10°C/14°F ~ 40°C/104°F
12	Advice Storage Temperature: -20°C/-4°F~65°C/149°F

11 Protections

Protection Name		Audible Alarm
1	Battery Low Voltage Warning	Input Voltages≤10.5V±0.5V, Output port can work normally LED Indicator light is green, Alarm Sound "DI DI" (2 Sounds), Continuous Alarm for 30 Seconds
2	Battery Low Voltage Protection	Input Voltages≤9.5V±0.5V, Inverter Stops Working LED Indicator Light is Red, Alarm Sound "DI DI" (2 Sounds), Continuous Alarm for 60 Seconds
3	Battery Over Voltage Protection	Input Voltages≥16V±0.5V, Inverter Stops Working LED Indicator Light is Red, Alarm Sound "DI DI DI" (3 Sounds), Continuous Alarm for 60 Seconds
4	Output Overload Protection	Output Wattage>450W, Inverter Stops Working LED Indicator Light is Red, Allow Two Recovery, Program locked Permanently in the Third Time Need to Power Off and Restart Alarm Sound "DI DI DI DI" (4 Sounds) Continuous Alarm for 60 Seconds
5	Output Over Current Protection	Output Electric Current>3.8 Amps, Inverter Stops Working LED Indicator Light is Red, Alarm Sound "DI DI DI DI" (4 Sounds), Continuous Alarm for 60 Seconds
6	Output Short Circuit Protection	Inverter Stops Working, LED Indicator Light is Red Alarm Sound "DI DI DI DI" (4 Sounds) Continuous Alarm for 60 Seconds
7	Inverter Overheat Protection	Internal Electronic Components of Inverter Temperature >105°C/221°F, Inverter Stops Working LED Indicator Light is Red, Alarm Sound "DI" (1 Sound) Continuous Alarm for 60 Seconds
8	Inverter Overcool Protection	Internal Electronic Components of Inverter Temperature <-10°C/14°F, Inverter Stops Working LED Indicator Light is Red, Alarm Sound "DI" (1 Sound) Continuous Alarm for 60 Seconds
9	Inverter Low Voltage Protection	Output Voltages≤90V, Inverter Stops Working LED Indicator Light is Red, Alarm Sound "DI DI" (2 Sounds), Continuous Alarm for 60 Seconds
10	Inverter Over Voltage Protection	Output Voltages≥140V, Inverter Stops Working LED Indicator Light is Red, Alarm Sound "DI DI DI" (3 Sounds), Continuous Alarm for 60 Seconds
11	USB Short Circuit Protection	No Alarm Remind USB, Ports Stop Working

Troubleshooting

		Possible Cause	Suggested Remedy
Problem 1	110 Volt AC product will not operate & no Inverter lights are on	Poor contact between cigarette lighter plug & vehicle cigarette lighter socket/ 12 Volt source	Press plug firmly into socket. Clean plug or socket if necessary
		Lighter socket/12 Volt output may require vehicle ignition to be switched "On"	Turn key to "Accessory" position
		Vehicle's 12 Volt cigarette lighter fuse is blown	The load wattage must less than the vehicle's cigarette lighter wattage. Check vehicle fuses and replace new one
Problem 2	Low Inverter output	Battery voltage is too low	Recharge battery
Problem 3	Vehicle's battery does not last long/drains fast	AC product power consumption is higher than rated	Use a large battery to make up for increased power requirement
		Battery is old or defective	Replace battery
		Battery is not being properly charged while engine is running	Have vehicle electrical system checked by a qualified technician

LED Lights

- The ON/OFF switch will send 110 Volts of AC power output to the Inverter's AC Outlet when switched ON.
- The green LED indicates AC power is present at the AC Outlet and the inverter is operating normally.
- The red light LED indicates that the inverter is in protections

LIMITED WARRANTY

18-Month Limited Warranty Policy

18-Month 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 or 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 18-month 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: customer.services@ampeak.com returning the 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 fully refunded at the buyer's option.

If such a unit is returned more than 30 days but less than 18-month from the purchase date, the 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 the 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 resulting 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.

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, the product and safety instructions shall be read and discussed with the operator in the operator's native language by the purchaser owned 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 a 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 the 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 disassemble 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 the inverter. Simply turning OFF the 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 a 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 -10°C/14°F~40°C /104°F
- 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 the ground to the unit.
- DO NOT use the inverter with medical devices since it is not approved for medical applications.
- 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 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.

! NOTE:
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 Ampeak: customer.services@ampeak.com to determine the rechargeable appliances' compatibility with the inverter.

HELP CENTRE

Thank you for choosing Ampeak 400 Watts Safe Power Inverter. Please read this instruction carefully as they contain important information, and safety requirements. If you have trouble understanding the instructions, or have any questions regarding its operation, please contact our friendly customer support team, via customer.services@ampeak.com

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