



Power Master AH Series

Model: PM-A-1000AH-12, PM-A-1000AH-24,
PM-A-1200AH-12, PM-A-1200AH-24
PM-A-1500AH-12, PM-A-1500AH-24
PM-A-2500AH-12, PM-A-2500AH-24
~ CE, LVD APPROVALS ~

Keep this file for future reference:

This instruction manual will show you how to install, operate and maintain Power Master AH series DC To AC Power Inverter, please read this carefully and keep this file for future reference.

What size inverter match your need?

We manufacture many different sizes, and several series. Contact your local dealer for specifications on each of our models. The size you choose depends on power consumption (find the power consumption by referring to the specification plate on the appliance). We recommend you to buy larger inverter than you think you'll need, because of surge power reason...etc.

Max output continuous & Max surge power:

What's the meaning of the "Max output continuous" & "Max surge power" is that some appliances or tools, such as ones with a motor, require an initial surge of power to start up (max surge load or max peak load). Once started, the tool or appliance requires less power to continue to operate (max output continuous load).

★ Helpful formulas:

Multiply: Amps * 120 or 230 (AC voltage) = watts

Multiply: Watts * 2 = surge power

This formula yields a close approximation of the surge power of the appliance.

★ **CAUTION:** Induction motors such as compressor, air conditioners, refrigerators, freezers and pumps may have a greater surge power of 3~9 times the continuous rating. If you need inverter to run induction loads, it's the right time to use pure sine inverter.

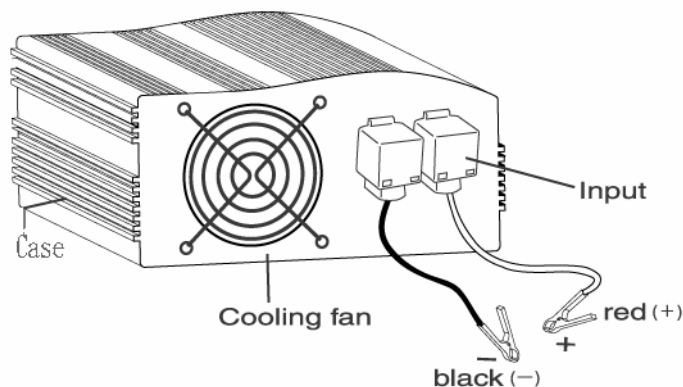
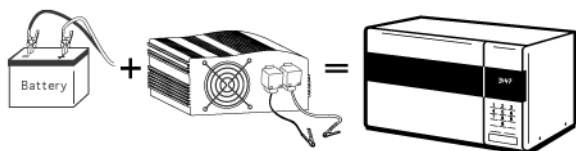
What type of battery should I use?

For above-mentioned models: most automobile and marine batteries will provide an ample power supply for 30~60 minutes even when the engine is off.

Actual time depends on the age and condition of battery. We recommend you to start the engine every hour and let it run for 10 minutes to recharge the battery.

Available Appliances:

It is suitable for the electrical appliance that power consumption is not excess overload, like: Notebook, TV set, Video game, fan, Karaoke, Emergency lighter...etc.



Maintenance:

Remember to pull all the plugs out of the socket when cleaning and clean inverter with dry cloth only.

★ **CAUTION:** Water is not acceptable.

★★ CAUTION ★★

1. Please do not use if the DC input source is not 12Vdc / 24Vdc, appliances is not 110Vac / 230Vac.
2. When you stop using it, please pull out the plug. Due to the temperature of the metal part is still high, don't touch the plug by hand or place it neat any flammable and easy-melting materials.
3. Under Voltage Protection system will be automatically shut off the inverter if the input voltage is too low. Please start your car engine to charge the battery, or stop using it.
4. Please pull out the plug from the cigarette lighter hole when starting the engine.
5. If the consumption power is over 600w when starting the tools, Over Load Protection system will be automatically shut off the inverter.
6. Due to the difference of the waveform, it may cause some buzzing and lines on audio and video equipment.
7. We recommend using sine wave inverter on the sensitive test equipment.
8. Stop using the inverter if the power cord/plug has damaged or loosen.
9. Do not put any object into the inverter, it may cause fire, electric shock or short circuit, if there is any abnormal noise, smell or smoke, please turn it off immediately, then contact your retailer.
10. Do not place any heavy object on the inverter or the power cord. Do not use it when the power cord is in a coil or distorted.
11. Do not allow water drip or splash on the inverter. Do not touch the case or the plug by wet hand.
12. Do not attempt to remake the structure or the power cord, it may cause electric shock or fire, please contact your retailer for internal checking if it is necessary.
13. AC Output lead:
 - (1) Brown (Black): Line lead (L).
 - (2) Blue (White): Neutral lead (N).
 - (3) Yellow / Green: Earth lead (E).

How to use PM inverter:

Put the cigar plug into the cigarette lighter hole in the car (DC12v or 24V) or connect the alligator clip to the car battery. Turn on the power switch; LED indicator will be light up. Then connect the electrical appliance to your inverter.

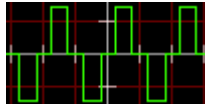







★ **CAUTION:** Make sure positive pole of DC clip (**Red wire +**) connect to positive pole of car battery (**Red wire +**).

Unpack and inspection:

Before you start to use, please inspect this carton should contain the following items:

- Power Inverter
- User's manual
- Cigar plug or Alligator clip or Cigar plug & Alligator clip both.

★ **CAUTION:** If you have no any of above-mentioned items after unpack, contact local dealer immediately.

SPECIFICATIONS								
Model No.	PM-A-1000 AH-12	PM-A-1000 AH-24	PM-A-1200 AH-12	PM-A-1200 AH-24	PM-A-1500 AH-12	PM-A-1500 AH-24	PM-A-2500 AH-12	PM-A-2500 AH-254
Max Output continuous	1000W	1000W	1200W	1200W	1500W	1500W	2500W	2500W
Max surge power	2000W	2000W	2400W	2400W	3000W	3000W	5000W	5000W
AC Output Voltage	<input type="checkbox"/> 100VAC <input type="checkbox"/> 110VAC <input type="checkbox"/> 115VAC <input type="checkbox"/> 120VAC <input type="checkbox"/> 220VAC <input type="checkbox"/> 230VAC <input type="checkbox"/> 240VAC							
Regulation	± 5%							
DC input Voltage	10~15V	20~30V	10~15V	20~30V	10~15V	20~30V	10~15V	20~30V
Output wave form	 ~ ~ Modified Sine Wave ~ ~							
Output socket type	 <input type="checkbox"/> Type 1	 <input type="checkbox"/> Type 2	 <input type="checkbox"/> Type 3	 <input type="checkbox"/> Type 4	 <input type="checkbox"/> Type 5	 <input type="checkbox"/> Type 6	 <input type="checkbox"/> Type 7	
Frequency	50Hz± 3% / 60Hz ± 3%							
Efficiency	>85%							
No load current draw	0.25	0.25	0.65	0.4	0.4	0.35	0.55	0.45
Temperature protection	50°C ± 5°C							
Input low voltage alarm	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Input low volt shut-down	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Input high voltage prot.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Overload protection	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Input reverse protection	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Output short circuit prot.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Soft Start	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
AVR	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
DC & AC isolated	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Auto Temperature Control Fan	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Remote control interface	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Dimensions (L * W * H)	282 * 178 * 82 mm	282 * 178 * 82 mm	390 * 210* 85 mm	390 * 210 * 85 mm	448 * 218 * 95 mm	448 * 218 * 95 mm	430 * 210 * 159 mm	430 * 210 * 159 mm
Net weight	2.5 kg	2.5 kg	3.9 kg	3.9 kg	4.0 kg	4.0 kg	8.7 kg	8.7 kg
Accessories	Alligator clip	Alligator clip	Alligator clip	Alligator clip	Alligator clip	Alligator clip	Alligator clip	Alligator clip

** We reserve the right to modify above-mentioned specifications.

We come from energy heavenly-*Power Master*

High-Technology, Excellent-Quality, Considerate-Service