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## 2000 watt pure sine wave inverter walmart

The inverter converts 12 V dc power to a standard 110-120 V ac home power supply, allowing you to start AC electrical equipment from your car or marine battery for mobile applications, emergencies or simple convenience. The inverter size selection is available in many sizes, measured in watts. The amount of power you'll need depends on the total draw of the devices you want to use. Many household appliances and power tools have their rated power indicated on the product itself. The rated power can also be calculated using this formula: Volts (120) x Amps = W To determine if several devices can be operated at the same time, simply add their rated power to check that the sum falls within the power inverter specification. For example, if you have an inverter with two sockets and connect 2 devices at a time, sum up the total power of both devices, and then add at least 50% more to account for peaks or spikes in the power train. For example, if a DVD player charges 100 watts and a laptop another 100 watts, a 300-watt inverter is recommended. If the component is driven by an engine, it requires an additional start-up power (surge) (usually 2-3 times the required continuous power) to start the device. For example, a saw that operates at 700 Watts may require 1,400 watts to run. If the inverter supplies only 1000 watts, it cannot be started. In this case, select an inverter with a power of at least 1400 watts to meet your starting needs. The estimated watts for the following equipment are estimates; in the user's manual or in the device itself so that it does not come to an end. This will make you choose the right inverter for the first time. Device Est. Watts Mobile Phone 24 CD Player 40 VCR 50 Satellite Dish 75 Printer 75 Laptop 60-90 iPod 120 PS2/XBox 125 25 TV 175 CPAP 200 Jig Saw 350 Computer & Monitor 400 Blender 400 Refrigerator 500 1/2 Drill 700 Vacuum Cleaner 750 Coffee Maker 800 Iron 1000 Sub Pump 1000 Heater 1000 40 Fan 11.00 Toaster 1200 Circular saw 1250 Microwave 1250 Typical applications Most power inverters under 300 watts can be connected to the vehicle battery using the dc plug (lighter) on the dashboard. They can also come with jumper-like cables to connect directly to the battery. Larger units are often connected to vehicles, RV or boats. Inverters usually have one or more standard power outlets for laptops, small screen TVs, video game players, or portable DVD players, and other devices. Dc to ac AC AC inverter is ideal for camping in parks that do not provide electricity. The toaster, blender and boom can still be used. On the boat, you can connect such as a digital movie camera to record videos when the camera battery runs out, or brew a pot on board with a coffee machine. Power inverter or Whether you want to use an inverter or generator depends on the type of load and how often emergency AC power is needed. In general, the inverter is a more economical power alternative to running components with a power of less than 1000 W, suitable for small devices, TVs, VCR's, DVD players and other low-load devices. If you plan to operate a refrigerator, freezer, washing machine, dryer or well system, a generator is a better choice. If your planned power consumption exceeds 2000 watts, you should choose a generator as the draw in the battery quickly depletes its power. A real sine wave or a modified sine wave? Power inverters produce one of two different types of wave power: Modified Sine Wave Modifi Modified inverters provide power that is consistent and efficient enough to work properly on most devices. These types of inverters are the most popular and inexpensive. They are also small and very efficient. The vector power inverter line is based on the modified sine wave technology. Truly sine wave inverters are the most expensive, but they also provide the most consistent, highest wave quality. Some sensitive devices require real sine wave, such as laptops, tool battery chargers, professional audio/video equipment, some medical devices and variable speed tools. If you are not sure if the device you want to use requires a real sine wave or not, call the manufacturer to ask. Each AC device will work on a real sine wave inverter, whether required or not. Primary batteries batteries should be in good condition. Replace old or weak batteries before connecting them to the inverter. Car batteries are not suitable for repeated long discharge and charging cycles. They will need to be replaced more often than a battery with a deep cycle. Deep cycle batteries are a better choice as a power source for the inverter. They are designed for repeated emptying and charging. It is also a good idea to deliver more than one battery to the inverter. Assessing battery ampoules is the most important means when choosing a battery for inverter use. This indicates how many amps the battery can deliver for a certain period of time (usually 20 hours), showing how long it will last before you need to connect to the charger. To extend battery life, do not use more than 50% of the battery's rated capacity before charging. The reserve indicates how many minutes the battery can provide a certain amount of current (25 amps for most batteries) at 60-75 ° F. Batteries will discharge much faster at lower temperatures. Safety tips Always use a power inverter that is high enough for running devices and avoid adapters, allow more sockets to be used than the device is designed to operate. If you are constantly using the inverter inside a vehicle that is not running, the engine must be started at least for 10-15 minutes to keep the battery from draining. Do not start the vehicle in a closed garage, as carbon monoxide in the exhaust is fatal. Inverters work best with a battery that is in good condition and is fully charged. A weak battery will be easily emptied if the requirements are too high. This may cause you to become stranded, so check the battery status before using the inverter in a stationary vehicle. If the power inverter is used while driving the vehicle, as in the case of road travel, there should be no problem with the additional consumption, assuming that the battery and alternator are in good condition. Before connecting the inverter to the cigarette lighter, make sure that the vehicle's wiring harness can support current. To use it safely, you may need to connect the inverter directly to the battery. Make sure the inverter is properly ventilated. Even a small inverter produces heat. Check that there is no internal fan with any inverter over 100 W. Place the inverter in a well-ventilated area during use. When connecting the inverter to the battery, refer to the operating instructions for the appropriate cable size for the battery cables. Most manufacturers recommend a 4 to 10 foot long cable, depending on the inverter. Avoid aluminum wire because it has a higher current flow resistance than copper wire. Working with car batteries can be dangerous and can cause serious injury, and improper use of the inverter can lead to electric shock or battery failure, so read and observe all precautions listed in the inverter's user manual for your safety. Prices, promotions, styles and availability may vary. Our local stores do not honor online prices. Prices and availability of products and services are subject to change without notice. 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