

# The actual power of the inverter is 1200w





## Overview

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The inverter can run any appliance or combination of appliances provided it is under 1200 watts per hour. However there is more to it than that. The inverter can operate a laptop, TV, food processor, movie.

Is a 1200 watt inverter enough?

For example, a portable AC unit might need 1000 running watts but 2500 watts to start up. In that case a 1200 watt inverter is not enough. Its running watt capacity is sufficient but the surge watts is not. Almost all inverter surge watt capacity is twice its running watts.

How many amps does a 3000W inverter draw from a 12V battery?

Inverter Current = Power ÷ Voltage Where: If you're working with kilowatts (kW), convert it to watts before calculation: Inverter Current =  $1000 \div 12 = 83.33$  Amps So, the inverter draws 83.33 amps from a 12V battery. Inverter Current =  $3000 \div 24 = 125$  Amps So, a 3000W inverter on a 24V system pulls 125 amps from the battery.

What is inverter current?

Inverter current is the electric current drawn by an inverter to supply power to connected loads. The current depends on the power output required by the load, the input voltage to the inverter, and the power factor of the load. The inverter draws current from a DC source to produce AC power.

How many Watts Does a 12V inverter use?

Its efficiency rating will determine how many watts it consumes. A low efficiency inverter will draw more watts or amps from the battery. This will lead to faster battery depletion and shorten the runtime. Batteries also discharge faster when more amps are drawn. The UPG 100ah 12V battery should hold 1200 watts and last for an hour.



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