

# How many A does a 12v3000w inverter have





## Overview

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How many amps does a 12V 3000 watt inverter draw?

For a 12V 3000 watt inverter:  $3000 \text{ watts} / 12 \text{ volts} = 250 \text{ amps}$ . This means that when fully loaded (3000 watts), it will draw 250 amps from the batteries (ignoring things like efficiency). So, you would need batteries with a capacity to meet a discharge rate (C-Rate) that allows the inverter to draw 250 amps safely.

How much current does a 3000 watt inverter draw?

If the 3000W inverter is running on a 24V battery bank, it can draw up to 175 Amps of current. If the battery bank is rated at 48V, the amp draw will not exceed 90 Amps. This is assuming the DC-to-AC conversion efficiency of the inverter (@ 3000 Watts) is around 85%.

How many amps does a 3000-watt inverter use?

So, the amps of the 3000-watt inverter in 120 volts will be  $3000 \text{ watt} / 120 \text{ volts} = 25 \text{ amps}$ . Now, time to calculate the amps of the 3000-watt inverter with 85% efficiency. With 85%, the amps of the 3000-watt inverter with 120 volts will be  $25 \text{ amps} / 0.85 = 29.4 \text{ amps}$  approximately. How many amps does a 4000 watt inverter draw?

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How many amps does a 300 watt inverter draw?

A 300 Watt Inverter generally pulls about 29.4 Amps. A 500 Watt Inverter usually draws approximately 52 Amps. A 600 Watt Inverter commonly draws around 62.5 Amps. A 750 Watt Inverter typically pulls about 78.13 Amps. A 1000 Watt Inverter typically draws around 98 Amps. A 1500 Watt Inverter generally draws approximately 126 Amps.



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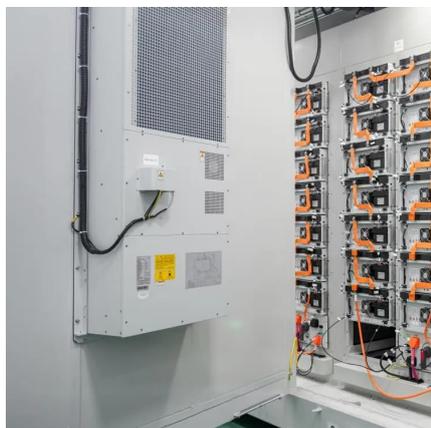


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