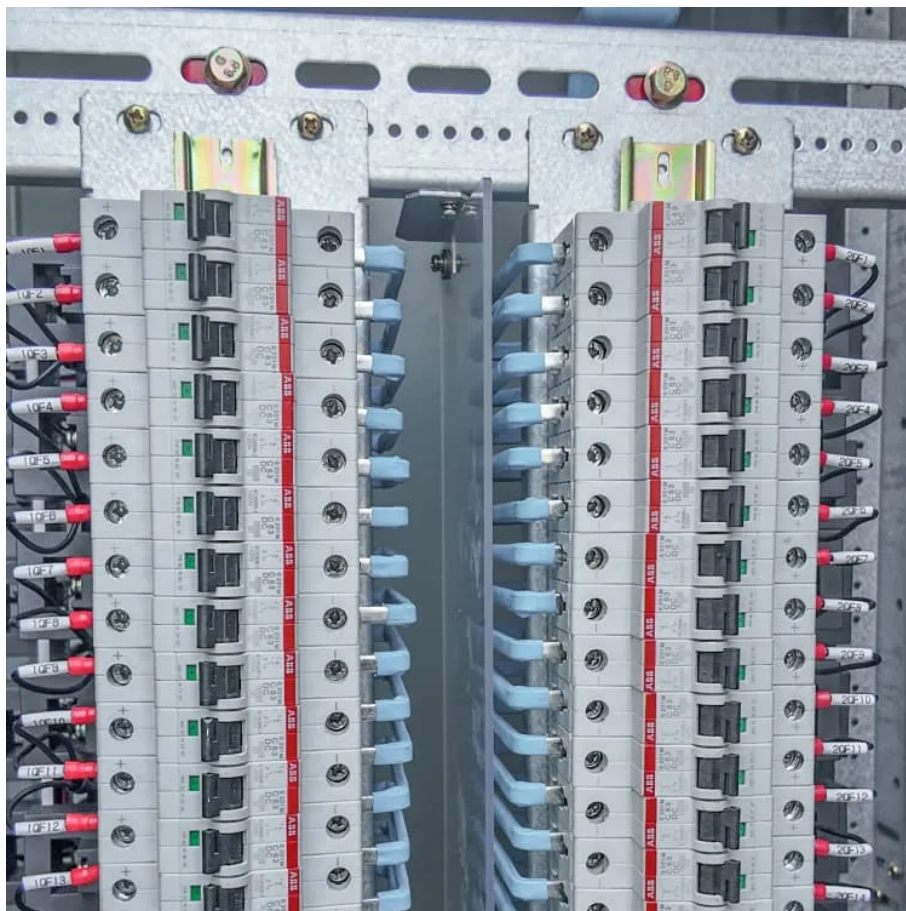


## 60ah with 1000w inverter





## Overview

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How many batteries to run a 1000W inverter?

Now we need to divide the available energy with the used energy:

$864\text{Wh}/50\text{W} = 17$  hours or run time. If you increase the battery capacity you can run the fridge for longer. Conclusion You need one 12V 100Ah battery or four 12V 100Ah lead-acid batteries in parallel to run a 1,000W inverter.

What is the runtime of a 1000 watt inverter?

The runtime of a 1,000W inverter depends on: This can get technical, so if you don't want to read all these steps you can fast-forward to the example. To calculate the runtime, you need to follow these steps: Determine the load (in watts) you want to run on the inverter. For example, if you have a 400-watt appliance, the load will be 400W.

How long do you run a fridge with a 1000 watt inverter?

$864\text{Wh}/50\text{W} = 17$  hours or run time. If you increase the battery capacity you can run the fridge for longer. Conclusion You need one 12V 100Ah battery or four 12V 100Ah lead-acid batteries in parallel to run a 1,000W inverter. We have also calculated the runtime of the inverter with a fridge which was 17 hours.

How much current does a 12V inverter draw from a battery?

The current draw depends on the battery voltage. Most readers of my website will have a 12V battery, so we will use 12V as an example.  $1,000\text{W}/12\text{V} = 83\text{A}$  The inverter will draw a current of 83A from the battery. If we repeat the same calculations for a 24V and 48V battery system:  $1,000\text{W}/24\text{V} = 41\text{A}$   
 $1,000\text{W}/48\text{V} = 20\text{A}$



## 60ah with 1000w inverter

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