

## SolarTech Power Solutions

# What does the wattage of an outdoor power supply refer to



## Overview

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What does wattage mean on a PSU?

The wattage implies the maximum available wattage to the system. However note that the PSU draws AC power from the wall socket, converts it to some other DC voltages, and provides those to your system. There is some loss during this conversion. How much depends on the quality of your PSU and on how much power you draw from it.

Does wattage matter if a power supply is 12 volt?

Watts are watts. The voltage does not matter here. A device does not use less power because it is a 12-volt device. The job of a power supply is to provide power to the connected device or appliance. So, it would make sense that the more power a device or appliance requires, the higher the wattage you'll need from the power supply.

Does higher wattage mean more power?

Higher wattage = more power. When considering the capacity of your power supply, there's one rule of thumb that's important to remember. It's better to have more power than you need because you shouldn't run your power supply at 100% capacity.

What does high wattage mean?

High wattage means more power is consumed. Because of this most of the time we are trying to build and use appliances that use less power and have lower wattages. Higher wattages however are good when you particularly need to turn electricity into heat. The higher the wattage the hotter the heater.

How many Watts Does a PSU need?

I think you 800W supply will be sufficient, but it won't guarantee you safety. It will supply at least 1200 Watt, not 960 Watt. If it is 80% efficient and

supplying 1200 Watt then it will draw 1500 Watt from the wall socket. If a PSU fails to deliver its stated rating then that is fraud. @Hennes your right, I was still sleeping I guess :).

Can a 250 watt power supply overpower an appliance?

Ideally, you'd want your power supply to have a wattage higher than 100 in this situation. If you have a 250-watt power supply and you use it to run an appliance that requires 100 watts, that power supply will only put out the necessary 100 watts the appliance needs. Essentially, the power supply will not "overpower" the appliance.

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