

SolarInnovate Energy Solutions

How many amperes does an outdoor power supply use



Overview

How many amps should a power supply supply supply?

A power supply or charger supplies current. Devices like mobile phones, tablets and laptops consume current and will take as much as they need. So if a product requires 2.1 amps, then the power supply should supply 2.1 amps or more. If the power supply provides more than 2.1 amps, the product will still only take 2.1 amps.

What does amps mean on a power supply?

In a nutshell, the Amps rating on a power supply, charger or adapter explains the maximum amount of current that it can safely provide in an hour. Any amperage of charger rated above what's required for your device is safe to use with your device, providing the PSU voltage is the same as the input voltage or within a tolerance of 1 volt.

How many amps does a computer power supply have?

Computer Power supplies have outputs of +12V, -12V, +5V, -5V, +3.3V and a common ground. You should check the tag on the power supply carefully. The tag will list the Amps for each voltage. In my case I choose a Dell 350 Watt supply from an old server. This had 14 Amps on the +12V line and even more on the +5V line.

How many amps does a home appliance use?

How many amps home appliances use depends a lot on the specific devices. For example, a house phone barely uses 0.1 amps whereas an electric clothes dryer could need 28.1 amps or more. How many amps does a fridge use?

A fridge will often use around 18.3 amps to start up and around 6.7 amps after that.

What should a power supply voltage be?

With that in mind, voltage is the essential factor and again should be the same or within a tolerance of 1 volt. A full guide on the key details of any power supply, charger or adapter including voltage, amperage and wattage.

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