



# Ups capacity for 10 computers

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In order to make your UPS run properly, your UPS has to be large enough to support all of the equipment plugged into it. You will need to find the UPS capacity. Capacity is how much power a UPS system can provide (measured in Watts). The higher the capacity, the more electronic equipment, and devices it can support.

The UPS market is a very diverse one. You can find tiny desktop units designed to keep a lightweight desktop computer running for 10 minutes, or walk-in-freezer sized units deployed in data centers to keep an entire bank of servers running through a storm.

An uninterruptible power supply (UPS), offers guaranteed power protection for connected electronics. When power is interrupted, or fluctuates outside safe levels, a UPS will instantly provide clean battery backup power and surge protection for plugged-in, sensitive equipment.

This post will tell you how to choose the right UPS with required UPS load capacity in the following four steps. Clarify UPS Measurement Units. UPS systems are rated either in kilowatts (kW) or in kilo-volt-amperes (kVA). For example, in a direct current (DC) circuit, watts = volts x amps. In other words, 1 kW = 1 kVA.

Offline UPS. Use Case: Suitable for small devices like home electronics and personal computers. Capacity Range: Up to 600 VA. Line-Interactive UPS. Use Case: Ideal for small offices and mid-range equipment. Capacity Range: 600 VA to 5,000 VA. Online UPS. Use Case: Best for critical systems like servers, data centers, and medical equipment ...

A cheap power strip might protect equipment from power surges, but it does nothing to help when the power goes out and your system comes to a halting crash. For that, you'll want a battery backup, also known as an uninterruptible power supply (or UPS).

Editor's Note: Don't want to read everything? You can't go wrong with this CyberPower1500VA model for \$140 or less. It's the one that we use here at the How-To Geek office, and while you can get something slightly cheaper if you shop around, you do get what you pay for and the cost difference isn't much.

Sudden loss of power and power surges are two of the principle causes of damage to computers and other sensitive electronics. Even cheap power strips will do a decent enough job protecting against the power surges, but they offer no protection against drops in line voltage, brownouts, blackouts, and other power supply issues.

In order to protect your computer against power supply interruptions, you need a battery backup. UPS units are like power strips that contain a big battery inside, providing a buffer against power supply interruptions. This buffer can range from a few minutes to an hour or more depending on the size of the unit.

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A simple way to think about the utility of a UPS unit is to think about working on a laptop. You're at home, your laptop is plugged into an appropriate surge protection strip, and you're busily finishing up some reports for work. A summer storm knocks the power out. Although the lights go out, your work on the notebook computer is uninterrupted because the notebook switched over to battery power seamlessly when the flow of electricity from the power cord vanished. You now have plenty of time to save your work and gracefully shut down your machine.

Desktop computers, however, don't have batteries built-in, like laptops do. If you had been working on a desktop during that power outage, the system would come to an immediate halt. Not only would you lose your work, but the process imposes unnecessary stress on your machine. In all our years of working with computers, the vast majority of hardware failures can be directly attributed to the stress hardware components experience during the shut down and startup process (especially if power surges or blackouts are involved).

If that's enough to convince you, read on as we guide you through identifying your UPS needs, calculating your UPS power requirements, and understanding the features and design types of various UPS units.

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