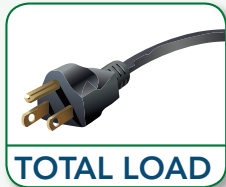




# UPS SYSTEMS: What You Need To Know

**PROTECT COMPUTERS FROM DOWNTIME, DAMAGE & DATA LOSS.  
USE THESE GUIDELINES TO CHOOSE A UPS SYSTEM:**



## HOW MUCH POWER DOES YOUR EQUIPMENT REQUIRE?

Add up the wattage of everything you will connect to the UPS system, then choose a UPS with a watt capacity 20-25% higher. The extra headroom accommodates the fluctuating power demands of equipment during startup and other conditions. (Note: Some desktop UPS systems have separate "surge-only" outlets without battery backup. You don't need to include the wattage of equipment connected to those outlets.)



## HOW MUCH BATTERY BACKUP RUNTIME WOULD YOU LIKE?

The runtime of a UPS tells you how long the UPS can keep your equipment running during a power outage before its battery runs out. Additional equipment decreases runtime; a larger UPS battery increases it. Some UPS systems also support connecting additional external battery packs to increase runtime.



## DO YOU EXPERIENCE POWER FLUCTUATIONS?

Line-interactive UPS systems (including SMART, OMNI, AVR and VS models) use automatic voltage regulation (AVR) to regulate incoming power without using the battery, preserving backup runtime and increasing battery lifespan.

SmartOnline® UPS systems provide the highest level of power protection for mission-critical applications.

## OTHER CONSIDERATIONS

- **Eco-Friendly Solutions:** Many UPS systems lower utility costs and save electricity through increased efficiency.
- **Number of Outlets:** How many devices will you plug into the UPS? Of that number, how many require battery backup?
- **Communication Ports:** Many UPS systems include USB and/or serial (DB9) ports which allow safe unattended shutdown of connected computers.
- **Data Line Surge Protection:** Many UPS systems offer surge protection for phone, Ethernet and/or coaxial lines.
- **Network Management Card:** Network/server UPS systems have a slot for a network management card. Some models also include the card.
- **Form Factor:** UPS systems come in low-profile desktop, tower and rack-mounted models.

### GOOD:

**Desktop UPS**  
(Internet Office®/  
ECO-UPS™/AVR/VS Series)



- Protect computers and electronics against common power problems
- ECO models save energy by automatically cutting off power to idle equipment
- AVR/VS models correct brownouts and overvoltages without using battery power

### BETTER:

**Line-Interactive UPS**  
(LCD/SmartPro® Series)



- Protect servers, network/telecom hardware and PCs
- Correct brownouts and overvoltages without using battery power
- LCD models include an intuitive LCD status screen that displays operating conditions
- SmartPro models provide sine wave output

### BEST:

**True On-Line UPS**  
(SmartOnline Series)



- Protect mission-critical servers, data centers, security, storage and VoIP equipment
- On-line, double-conversion operation with pure sine wave output and zero transfer time provides the highest level of protection
- Economy mode significantly reduces heat output and operating costs

**Find Your UPS System!**  
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