

UNINTERRUPTIBLE POWER SUPPLY SYSTEMS 101

A step-by-step guide to help you identify the right UPS for your power needs



1. CALCULATE THE POWER REQUIREMENTS

- List all the devices (computers, servers, networking equipment, etc.) that you will need to connect to the UPS.
- Find the power consumption (in watts) of each device. This information can be found on the device's label or in its technical specifications.
- Add up the power requirements of all devices to get the total load.
- If you plan to add more devices in the future, account for their power requirements in your calculations.



2. DETERMINE RUNTIME NEEDS

- How long will you need the UPS to provide power in case of a power outage?
- Consider whether you need enough runtime to shut down connected systems gracefully or if you require longer runtime for critical operations.

CyberPower

**PRO
TIP**

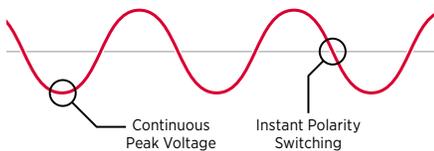
Remember that it's generally better to oversize the UPS slightly to accommodate future growth and to provide a buffer for unexpected increases in power demand.

3. SELECT THE UPS TOPOLOGY TO MEET YOUR POWER PROTECTION NEEDS:

| STANDBY | LINE-INTERACTIVE | ONLINE (DOUBLE-CONVERSION) |
|--|---|---|
| Delivers cost-effective power protection, best suited for less critical applications or environments with stable power supplies | Provides enhanced power protection with Automatic Voltage Regulation functionality, which preserves the battery, extending the life of the UPS | Offers the highest level of power protection for mission-critical applications, delivering clean, near-perfect power with zero transfer time |
| IDEAL FOR: | IDEAL FOR: | IDEAL FOR: |
| <ul style="list-style-type: none"> • Home Computers • Workstations • Modems & Routers • Point-of-Sale Systems • ATMS & Kiosks | <ul style="list-style-type: none"> • Home Office • A/V equipment • Gaming Computers • Servers • Point-of-Sale Systems • Security Systems • Casino Gaming • Networking & Storage Devices • VoIP/Telecom Systems | <ul style="list-style-type: none"> • Enterprise & Corporate Servers • A/V equipment • Security Systems • Edge Closets • Networking • VoIP Systems |

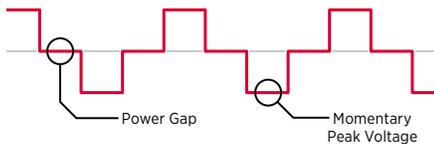
4. DETERMINE THE WAVEFORM

UPS systems utilize two types of wave forms to deliver power: simulated sine wave and sine wave.



SINE WAVE

Sine wave output is clean with no power gaps, making it ideal for running sensitive electronics and computers using Active Power Factor Correction (PFC) power supplies. UPS systems with sine wave output reduce unnecessary shutdowns and the potential damage from a power event.



SIMULATED SINE WAVE

Ideal for non-sensitive electronics, a UPS system with a simulated sine wave output generates a stepped sine wave to supply cost-effective battery backup power.



5. CHECK VOLTAGE AND OUTLET COMPATIBILITY

- Ensure that the UPS output voltage matches the requirements of your equipment.
- Check the type and number of outlets provided by the UPS to make sure they match your devices.



6. CONSIDER SPECIAL FEATURES:

- Evaluate if you need any additional features for your set-up. CyberPower offers UPS systems featuring: automatic voltage regulation, LCD displays, remote management, and energy-saving modes.

If you have additional questions, contact:

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