# Common Power Problems that can harm your computers and corrupt your data.

	2 Power				6 Line	7		My 9
Power Failure A total loss of utility power	Sag Short-term low voltage	Power Surge (Spike) Short-term high voltage above 110% of nominal	Under- voltage (Brownout) Reduced line voltage for extended	Over- voltage Increased line voltage for extended period of a few minutes to a few days	Noise High frequency waveform caused by RFI or EMI interference	Frequency Variation A change in frequency stability	Switching Transient Instantaneous undervoltage (notch) in the range of nano	Harmonic Distortion Distortion of the normal waveform generally transmitted by nonlinear loads
			period of a few minutes to a few days				seconds	

Series

**Essential Solution:** Protection from three problems

3







Series

Intermediate Solution: Protection from five problems

5











Series

Complete Solution: Protection from all nine problems

9



















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### Powerware Series 3

### Single-phase UPS





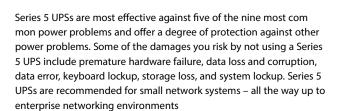


Series 3 UPSs primarily protect against three of the nine most common power problems. This basic, cost-effective protection is necessary in order to prevent damage such as data loss, file corruption, flickering lights, hard ware damage, and equipment shutoff. For example, if your utility fails you could lose all of your work-in-progress. Series 3 UPSs offer a degree of protection against the remaining power problems and are most commonly used to protect single workstations and point-of-sale (POS) equipment.



### Powerware Series 5

### Single-phase UPS

















**Powerware Series 9** 

Single-phase UPS





5S



5P





Frequency Variation





Series 9 UPSs protect against all nine of the most common power problems. Our comprehensive protection minimizes the opportunity for component stress, burned circuit boards, data crashes and pro gram failures. Series 9 UPSs offer the highest level of power protec tion available and are always recommended for mission-critical appli cations like high-end servers, hospitals and voice over IP applications.











# Which UPS is right for you?

To determine the level of protection you require from a UPS consider the following criteria:

- 1) How critical is the application you need to protect?
- 2) Do you need complete or partial protection?
- 3) What size UPS do you require? VA, watts, sizing calculations?
- 4) Battery run time required in minutes? In hours?
- 5) What software and network considerations do you have? Platforms, SNMP, remote monitoring etc.?

## We can assist with selecting the right UPS for your requirements

Freephone 0800 99 33 44 Email: powersystems@yhi.co.nz www.powersystems.co.nz www.yhipower.co.nz

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