

How to size a UPS

You have decided that you need a UPS. What's next? Well, you have to pick the right one!

Alternative #1:

Visit www.eaton.com/UPSselector

Alternative #2:

Call our knowledgeable inside sales team: **800.356.5794**

Alternative #3:

Do it the old fashioned way. Completing these steps is also very useful for the first two alternatives.

- 1 List all equipment to be protected by the UPS. (Remember to include monitors, external hard drives, routers, etc.)
- 2 List the amps and volts for each device. These ratings can typically be found on the label on the back of the

equipment. Multiply amps by volts to determine VoltAmps (VA). Some devices may list their power requirements in watts. To convert watts to VA, divide the watts by power factor. For servers, the power factor is often 0.9.

- 3 Multiply the VA by the number of pieces of equipment to get the VA subtotals.
- 4 Add the VA subtotals together.

- 5 Multiply the total by 1.2 to get the grand total. This step accounts for future expansion.
- 6 Use the grand total to select a UPS. When choosing a UPS, be sure that the total VA requirement of supported equipment does not exceed the VA rating of the UPS.

UPS Sizing Worksheet

1 Equipment	2 Amps	x	2 Volts	=	2 VA	x	3 Quantity	=	3 VA Subtotal
		x		=		x		=	
		x		=		x		=	
		x		=		x		=	
		x		=		x		=	
		x		=		x		=	
		x		=		x		=	
		x		=		x		=	
		x		=		x		=	
		x		=		x		=	
		x		=		x		=	
		x		=		x		=	
		x		=		x		=	
		x		=		x		=	
		x		=		x		=	
						4	Total		
						5			x1.2
						6	Grand Total		

UPS cost justification worksheet

This worksheet helps you determine the estimated dollar savings that a UPS can deliver. Simply fill in the information to calculate the costs of one hour of downtime. Actual dollar amounts will vary from company to company, location to location, and industry to industry.

1. Number of critical loads:
Critical loads = any equipment running or supporting your applications (servers, routers, PCs, network devices, etc.)..... _____
2. Number of employees using critical loads:..... _____
3. Employees' average hourly earnings:..... _____
4. Estimated cost of lost business per hour of downtime..... _____
(\$1,000, \$5,000, \$10,000...)
5. Cost of service calls per hour:..... _____
6. Cost of recreating or salvaging data (if applicable):..... _____
7. Cost of replacing hardware (if applicable):..... _____
8. Cost of reinstalling software (if applicable):..... _____

9. Lost employee time (line 2 x 3):..... _____
10. Lost business (line 4):..... _____
11. Service (line 5):..... _____
12. Recreating or salvaging data (line 6):..... _____
13. Replaced hardware and software (line 7 + 8):..... _____

14. Estimated total cost per hour of downtime:..... \$ _____

This is only one hour. Imagine if your systems were down all day!

Find your ideal solution:
Eaton.com/UPSselector

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