

4 STEPS TO TOTAL POWER PROTECTION

How to size and select the correct UPS for your application!

Building a cost effective UPS plan requires more than simply totalling the wattage of the equipment to be protected! There are 4 basic steps in any Power Protection plan.

Step One : ANALYSIS

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What level of protection do you want?				
Blackout Protection ?	Power-Sure <input checked="" type="checkbox"/>	PowerSure ProActive <input checked="" type="checkbox"/>	PowerSure InterActive <input checked="" type="checkbox"/>	Upstation GXT <input checked="" type="checkbox"/>
Input Voltage Fluctuation ?	Power-Sure <input checked="" type="checkbox"/>	PowerSure ProActive <input checked="" type="checkbox"/>	PowerSure InterActive <input checked="" type="checkbox"/>	Upstation GXT <input checked="" type="checkbox"/>
Surge, Sag, Noise & Spike ?	Power-Sure <input checked="" type="checkbox"/>	PowerSure ProActive <input checked="" type="checkbox"/>	PowerSure InterActive <input checked="" type="checkbox"/>	Upstation GXT <input checked="" type="checkbox"/>
What is the effect on business if the protected equipment is down?				
Inconvenient ?	Power-Sure <input checked="" type="checkbox"/>	PowerSure ProActive <input checked="" type="checkbox"/>	PowerSure InterActive <input checked="" type="checkbox"/>	Upstation GXT <input checked="" type="checkbox"/>
Costly ??	Power-Sure <input checked="" type="checkbox"/>	PowerSure ProActive <input checked="" type="checkbox"/>	PowerSure InterActive <input checked="" type="checkbox"/>	Upstation GXT <input checked="" type="checkbox"/>
HALTED ???	Power-Sure <input checked="" type="checkbox"/>	PowerSure ProActive <input checked="" type="checkbox"/>	PowerSure InterActive <input checked="" type="checkbox"/>	Upstation GXT <input checked="" type="checkbox"/>
How sensitive is your protected equipment?				
Average ?	Power-Sure <input checked="" type="checkbox"/>	PowerSure ProActive <input checked="" type="checkbox"/>	PowerSure InterActive <input checked="" type="checkbox"/>	Upstation GXT <input checked="" type="checkbox"/>
Medium ?	Power-Sure <input checked="" type="checkbox"/>	PowerSure ProActive <input checked="" type="checkbox"/>	PowerSure InterActive <input checked="" type="checkbox"/>	Upstation GXT <input checked="" type="checkbox"/>
High ?	Power-Sure <input checked="" type="checkbox"/>	PowerSure ProActive <input checked="" type="checkbox"/>	PowerSure InterActive <input checked="" type="checkbox"/>	Upstation GXT <input checked="" type="checkbox"/>
What battery run times do you require?				
Standard ?	Power-Sure <input checked="" type="checkbox"/>	PowerSure ProActive <input checked="" type="checkbox"/>	PowerSure InterActive <input checked="" type="checkbox"/>	Upstation GXT <input checked="" type="checkbox"/>
10 /30 minutes (low loads) ?	Power-Sure <input checked="" type="checkbox"/>	PowerSure ProActive <input checked="" type="checkbox"/>	PowerSure InterActive <input checked="" type="checkbox"/>	Upstation GXT <input checked="" type="checkbox"/>
30 Minutes PLUS ?	Power-Sure <input checked="" type="checkbox"/>	PowerSure ProActive <input checked="" type="checkbox"/>	PowerSure InterActive <input checked="" type="checkbox"/>	Upstation GXT <input checked="" type="checkbox"/>

Having asked and answered the above questions & you now know which is the correct UPS for your application, its time to get out pencil and paper and work out sizing.

Step Two : CONFIGURATION

1. Make a list of all the equipment that requires protection.
2. Record the voltage and amps from the rating plate & multiply to calculate VA.
3. Tally up the VA total of all equipment. (If Watts quote, multiply by 1.4 to = VA)
4. It is recommended that you oversize your selection to allow for a degree of growth.
5. Refer to the tables over the page to select the correct size UPS.

Step Three : INSTALLATION, TRAINING, MAINTAINING

Mission Critical equipment and UPS should be located so that it is **protected from heat, humidity, dust & tampering**. There is no such thing as "set & forget" power protection. **Train your network users** on monitoring, alarms, shutdown and restart protocols. Be aware of UPS **periodic automatic systems checks**, especially if your utility causes constant use of the batteries.

Step Four : REVIEW

Make sure your power protection plans keep up with network computing plan. Its cheaper & safer!

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If in doubt how best to select or size your Liebert UPS,
Contact Dove Electronics for assistance.

Email: ch_sales@dove.co.nz

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Workstation Applications in Minutes					
VA	PSP300	PSP500	PSA350	PSA470	PSA700
50	12	12	65	90	-
100	12	12	36	48	75
150	12	12	21	26	40
200	9	12	15	18	27
250	6	12	11	18	20
300	5	12	9	14	15
350	-	10	6	11	13
400	-	8	-	9	11
470	-	6	-	6	9
500	-	5	-	-	8
600	-	-	-	-	6
700	-	-	-	-	5
800	-	-	-	-	-
900	-	-	-	-	-
1000	-	-	-	-	-

Note:

All run times are in minutes, assume fully charged batteries, and are typical at 25°C with resistive loads.*

* Due to the fact that runtimes will always vary according to age of the batteries, operating temperatures, load characteristics and other factors.

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