



Single Phase UPS Sizing Work Sheets

Purpose:

The purpose of this worksheet is to provide a guide for determining what a facilities requirements are for an Uninterruptible Power System(UPS). This worksheet is ideal for personnel that do not work with UPS systems and it will guide the user on what to look for in putting together a UPS for their application.

By collecting the information requested and answering the questions in this worksheet, a user by the end of the worksheet will have a very good understanding of what type of system they will need for their application and the size of UPS they will require. With this information in hand, the user can provide us with the specifics of their requirements so that we can properly provide the right UPS for their application.

Preliminary:

We offer various size single phase UPS modules from 1kVA all the way up to 22kVA. We also offer some modules that can be paralleled in certain situations. So one of the things the user has to determine is the load on the UPS. Basically, what are you wanting to have the UPS power?

On the following page there is a section for listing the equipment and the load rating of the the equipment. A load rating is the amount of power the the piece of equipment will draw from the UPS module. Now this can be expressed in either kVA, kW, or Amps. Hopefully all of your equipment will express the rating as in the same format but if not we can help converter ratings to the same type once you have collected all the load ratings.

How you determine the ratings is by looking at the

specifications of the equipment listed in the owners/operators manual. If you can not find it listed in the manual, then on the back of the equipment typically there should be a name plate with the voltage and current requirement.

We do not like to use the breaker rating from the breaker that feeds power to the equipment. With multiple pieces of equipment on one UPS, this can lead to over sizing of the UPS. The breaker rating does not reflect the actual current requirement that the equipment runs at but is the sizing required for safety protection based on electrical code requirements, which will be larger than the actual run time current. It is always best practice to use the name plate or manual listed rating.



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