



Homemade backup power supply

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How to DIY Your Home Battery Backup System?

,?,?,UPS480V,208V?400V? ...

NOTE: Be careful when working with batteries and electricity. Do not short batteries. Use insulated tools. Follow all safety rules when working with electricity.

By building your own battery backup system, you can size it to your desired needs. We will go over how to choose the right size battery and inverter, and how to put the system together.

- 1 or more sealed deep cycle batteries
- 1 DC to AC power inverter
- 1 Smart Charger/Maintainer
- Inverter cables and battery link cables (if using more then one battery)

For this system I used the following:-2 VMAX SLR155 12-Volt 155Ah AGM batteries connected in parallel (vmxtanks)

-1 Vmxtanks BC1220a 12V 20A 7-Stage smart charger

When choosing an inverter, pick one with a wattage rating higher then what your devices use; add up the wattage of the devices you would like to power. Your appliances will usually have a label which indicate the input wattage or amps. Wattage is simply volts times amps. For example if your laptop charger uses 80 Watts, and your phone charger uses 20W, you need an inverter rated for at least 150W. Blenders typically use 300W, so to power your blender, laptop and charge your phone you would need a 500W inverter. It is always better to oversize your inverter. I chose to use a 2000W inverter.

A deep cycle battery is recommended since deep cycle batteries can be cycled many times. If you use a flooded car battery it will be damaged by being deeply discharged. I chose to use AGM deep cycle batteries by VMEXTANKS, since they can be cycled many times and are sealed. AGM batteries are also maintenance free and safe for indoor use. By adding up the wattage of the devices you want to power, you can figure out what size battery bank you will need. Take the watts, ex. 400W, and multiply by how many hours you want to power the 400W load.



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