



Build your own battery backup

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A Charger/Inverter will also provide a cleaner looking setup since the charger and inverter will be combined into one unit.(Uninterrupted Power Supply). For a more cost effective solution, use a smart charger along with a standard inverter instead of an Inverter/Charger.

A sealed deep cycle AGM battery is recommended, AGM batteries can be cycled many times and are designed for this type of application. For this project we used high performance AGM batteries by VMAXTANKS, since they can be deep cycled many times, have an expected life span of 8 to 10 years in float service applications(~1,600 Cycles at 25% Depth of Discharge, ~1000 Cycles at 50% depth of discharge) and are safe for indoor use.

We can determine how many Watt Hours of energy you will need by adding the wattage of the devices we want to power and multiplying by how many hours we want to power the load.

A 400W load will consume about 2,000 Watt Hours in 5 hours: $400W \times 5 \text{ hours} = 2,000 \text{ Watt Hours}$. For 2,000 Watt Hours, choose a battery bank which provides at least 4000WH(4kWH) to keep the batteries from going below 50% capacity (this will help the batteries achieve more cycles over time).Vmax batteries feature military grade plates and are built tough to handle very demanding use, they can be cycled past 50% although keeping the batteries above 50% will result in longer lasting batteries.

If you've ever had the misfortune of losing power right in the middle of a big project you know the headache that can come with that. Over on Instructables, ooda55 guides you through the process of building your own battery backup system so you never lose a minute of work.



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