

NOW YOU CAN BUILD A HOMEMADE BATTERY THAT WILL LAST A LIFETIME



note this battery pictured Does NOT have 20 turns of the copper wire

List of Supplies you will need:

1 small fruit (canning) jar

1 sheet of copper 5" by 10"

(or you can use a 10' length of 10 gauge copper wire, wrap this bare copper wire around the foam encasing the Magnesium rod about 20 times)

1 Magnesium rod about 1/2" in diameter and 5 1/2" tall

1 piece of 1/2" foam 5" by 8" (or you can use plumbing insulation foam and cut to 5" length)

1 small hose clamp (to attach to the top of the Magnesium bar to attach the Positive wire to)

add water

NOW what you do is wrap the foam around the Magnesium rod (or if you are using pipe insulation insert the Magnesium rod into the foams center hole) While holding the foam around the Magnesium rod wrap the foam with the copper sheet around the foam.

Now place this into the jar and add water to cover the foam.

You will need to pull a corner of your copper sheet up out of the water to attach the alligator clip to.

Some people add electrolyte to increase the amperage and this will work but it will diminish the life of the magnesium rod. Some people have used Orange Juice, Grapefruit Juice etc. And some people have

experimented using a Zinc or Galvanized rods these will help but they shorten the life of the battery. And our goal was to produce a cheap battery that will last a lifetime. With using the Magnesium rod and water you only have to clean the Magnesium rod and copper sheet with a light sanding with steel wool about every 9 or 10 months, but it will keep on producing power without any other changes or additions.

Now for the bad news

Although the power IS 1 volt the amperage is less than 100 milliamps, so you will need 4 or 5 of these cells to power a single LED light. Yes you can wire 12 of these jars so that will end up with 12 volts but the amperage will be low and you will need to wire several banks of 12 cell (jars) to get the kind of power required to power anything significant. That said, if you were to lose power and your expensive solar panels were in the dark for an extended period of time, you just might be very happy you had these as a back-up at least for emergency lighting.

(Just make sure your copper NEVER touches the Magnesium rod)

Hey after all it's cheap and you can't beat cheap.

This unit will replace a AAA battery and after your expensive AAA batteries are all gone this just might be your fix for replacing your AAA batteries