

Many people don't realize how damaging an EMP attack can be. Tech Protect Bags came about by understanding how to protect ourselves from such an attack.

What is an EMP?

In simple terms, that I can understand, an Electro Magnetic Pulse is a release of energy or current that is trying to find a way to "ground". As it races through the atmosphere towards earth (because of the magnetic field around the earth), it travels along the "path of least resistance" to ground. Electric overhead power lines act like antennas to attract the current because of its long wave length. The electromagnetic current that enters our power distribution system is expected to damage or destroy transformers and equipment meant to regulate the power lines. All other devices that are exposed (not stored in a protective device like a Faraday bag or cage) will also have the current travel across its circuitry and most likely destroyed or damage it.

What can be done?

Along with common sense ideas and thinking about what is really important for surviving an EMP Flood, you can protect much of what you own! Example: A few of my first thoughts were around communication and how to protect our hand held walkie-talkies and cell phones. If this takes place and the cell towers are down for months, I do NOT want to be in line at the cell store waiting on back order for a new phone. My chain saw motor spark plug is driven by an electronic ignition system. I do NOT want to go into a major extended power outage without a chain saw. I need to protect it. I also need transportation of some kind and something that will work with me to accomplish routine tasks like a 4 wheeler, boat motor, truck, car, etc. All use electronic ignition systems! (See list of items below of what may be affected by EMP). A Faraday Box is designed to protect again just such an occurrence as an EMP. The military uses this along with other "hardening" practices to protect against the potential EMP Flood we've been discussing. For us at home, this in many cases just isn't feasible on our budgets or technical expertise. That's why I'm introducing a less expensive EMP Bag, called the Tech Protect Bag to place our at risk items in for storage. The bag is made of heavy duty Mylar that has a metal alloy designed into it (aluminum) and a plastic insulating covering that keeps the current from reaching your sensitive device. A simple zip lock closing at the top ensures complete enclosure and protection for your devices. What can and should you protect at home and at the office? See a starter list contained below. What items do you have in a camper or cabin you expect to use in an emergency? Remember.... A new way of thinking. If ye are prepared ye shall not fear...

- Laptop(s)
- I-Pads
- I-Pods
- MP3 Players of any kind
- Walkie Talkies
- Radio(s), emergency or otherwise
- CB Radios not in use
- Cell phones
- Home wireless phones
- GPS gadgets
- Calculators
- Electronic clocks
- DVD/Blue Ray Player(s)
- Battery chargers
- Hand held game systems
- Key fobs to vehicles or home security
- Chain Saw(s) Anything with electronic ignition
- Generators

- Kitchen appliances
- Flat panel screens not in use
- Hard drives
- Thumb drives
- Electronic storage medium

Q: Is the bag size an internal or external dimension?

A: The bag sizes, as listed in the product description, are external dimensions. Please allow for a 1/4" to 1/2" seam allowance depending on each bag size.

Q: Why can't I wrap the electronic devices in plastic wrap, then tin foil, then plastic, and a final wrap of tin foil to get the same protect (or place them in a plastic trash bag and inside a metal garbage can)?

A: YOU CAN! It won't meet the military specification. However, most experts believe it will work. If you intend to use the device on a frequent or infrequent basis you will love just opening a zip lock to get your hardware! Foil tears easily. This material features an incredible 38-pound puncture resistance, which also provides superior drop test performance. You won't find a better Faraday Bag on the market!

Q: What's at risk with an EMP event for Solar or Terrorist weapon?

A: I've tried to read everything I can about this from the leading experts. The problem is... We don't know what we don't know! We've never experience anything like what we are preparing for. Even the experts in this science with location (height over our nation), yield (size of weapon), and models from former government test by the US and USSR can only speculate. The reason? We live in a completely different electronic society than we did in the 1960's! All the experts agree it's just a question of when and not if, before we see a solar storm of a Category 5 (1859 like event). However, again it's speculation on what and how much we will be affected for the same reasons above. I for one so hope I can look at these bags in 30 years and say we never needed them. I hope to say the same thing about auto, fire and wife's life insurance!

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Q: What is a Solar Storm?

A: With what I believe to be a higher probability of occurrence than an EMP, is a solar storm or sun flare that would overpower nature's magnetic field around the earth. That Magnetic field has protected us so well over the past 151 years. Yes, 151 years. It was 1859 when the last Solar Storm occurred that was so powerful that it destroyed major sections of ALL of our electronic components at that time (very small compared to today). This was only few power lines and most of the telegraph systems in our Northern Hemisphere. What a different way of life we live now as compared to 1859. Do we understand that none of our electronic systems or markets has ever been tested against this natural occurrence? Did you know that almost nothing has been designed to survive a natural occurrence like this? Consider what is at risk

from North going South as this energy would dissipate. Electric overhead power lines become antenna's to attract the pulse, burning transformers to controls on an old and overloaded system. All of our communication systems, wired and wireless are at significant risk. Control systems that move inventory through our transportation systems are all at risk. Even our railroads are controlled by a new level of technology we've not had in the past. Banking and managing our markets on Wall Street are all centralized in the North.

Q: Why a faraday bag if everything is going to be destroyed anyway?

A: We don't know how extensive damage may be. What we do know is we WILL rebuild! You do want your files, pictures, and survival information. If you don't mind being on a waiting list for electronic purchases (a new phone, laptop, or any other electronic device) and recreating all your information, after the towers are back up, then don't buy a bag! The cost is so small compared to value of hardware and especially the data. The bag will also protect devices from other elements like water, dirt and dust (in your back pack or case).

Q: What can be done?

A: Along with common sense ideas and thinking about what is really important for surviving an EMP Flood, you can protect much of what you own! Example: A few of my first thoughts were around communication and how to protect our hand held walkie-talkies and cell phones. If this takes place and the cell towers are down for months, I do NOT want to be in line at the cell store waiting on back order for a new phone. My chain saw motor spark plug is driven by an electronic ignition system. I do NOT want to go into a major extended power outage without a chain saw. I need to protect it. I also need transportation of some kind and something that will work with me to accomplish routine tasks like a 4 wheeler, boat motor, truck, car, etc. All use electronic ignition systems! (See list of items below of what may be affected by EMP). A Faraday Box is designed to protect against just such an occurrence as an EMP. The military uses this along with other "hardening" practices to protect against the potential EMP Flood we've been discussing. For us at home, this in many cases just isn't feasible on our budgets or technical expertise. That's why I'm introducing a less expensive Faraday Bag, called the Tech Protect Bag to place our at risk items in for storage. The bag is made of heavy duty material that has two metal alloy layers designed into it (aluminum) and an electric dissipative coating inside and out, that keeps the current from reaching your sensitive device. A simple zip lock closing at the top ensures complete enclosure and protection for your devices.

Q: Isn't this my mother's Mylar Bag?

A: NO, this is a specially designed bag with two heavy metalized layers of aluminum laminated together and then coated with a special material inside and out that dissipates electrical charge from the bag. It's 7 mills thick and has a high puncture resistance. It can be used for anything a Mylar bag is used for. However, this is the only one that meets the military specification MIL-B-81705-Rev-C.