VVCPG October 12, 2024 Meeting

Topics:

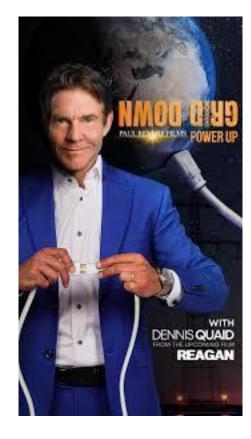
- Documentary: Grid Down Power Up
- EMP Shield What is it, why do I need it and how to install it
- Solar Battery Backup for well, fridge, microwave, security system, etc

Documentary: Grid Down Power Up

Grid failure is a real and imminent threat, a devastatingly deadly occurrence leading to life-threatening shortages of heat, food, and water.

If protective measures are not taken, we will experience catastrophic failures leaving citizens in states of starvation, death, destruction, and darkness for months.

Watch the documentary



Quick 5 Minute Break

EMP Shield

EMP Shield

What is it, why do I need it and how to install it

Protection for your HAM Radio Antenna, Vehicle, RV & Home <u>Watch intro video</u>





Solar Flares Up to 228,000 Amps



Lightning Protection 100% Lightning Guarantee Backed By a

\$25,000 Insurance Policy

Website: https://www.empshield.com/





DHS

United States Department of Homeland Security



U.S. AIRFORCE

United States Airforce

FEMA

Federal Emergency Management Agency



FBI

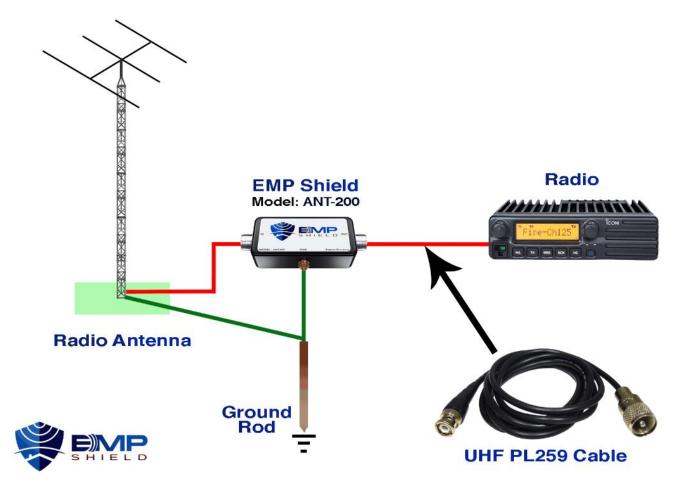
Federal Bureau of Investigation

PayPai CREDIT 6 Months to Pay 0% Financing Interest Free Credit Available at Checkout

Discounts:

10% for being a VVCPG member Plus 10% if 60+ years old Call Nancy at 620-203-6202

EMP Shield – HAM Radio Antenna



You should have a faraday bag for your HAM Radio!



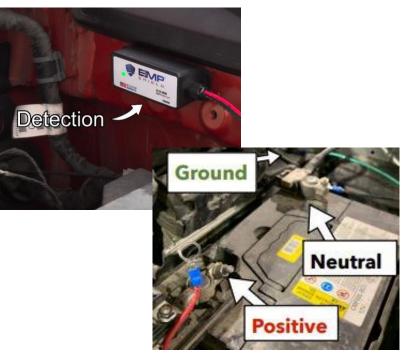
EMP Shield - Vehicle

EMP Shield Vehicle Protection

- Perfect for engine compartments that have limited space
- Sized to fit SxS's, ATV's, Motorcycles, and other small mobile platforms in addition to your car or truck
- Includes 2x industrial Velcro fasteners to easily swap the EMP Shield between vehicles



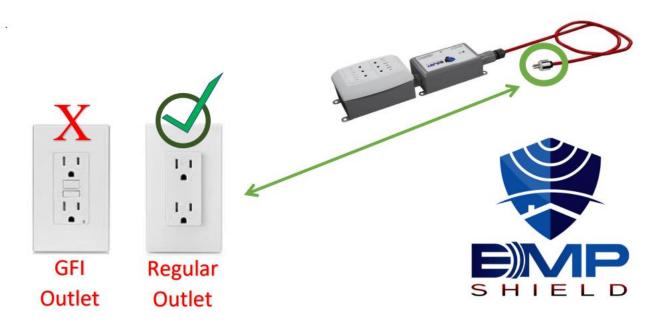




EMP Shield - RV

Portable EMP Shield for Motorhomes/Travel Trailers

Plug-in/Extension EMP Shield Installation



EMP Shield for the RV Battery



Plug-in the EMP Shield into a Non-GFI outlet and the entire 110V electrical phase will be protected.

EMP Shield - Home

Two Models Depending on Your Breaker Box

Breaker box extends from the wall



Breaker box is flush with the wall



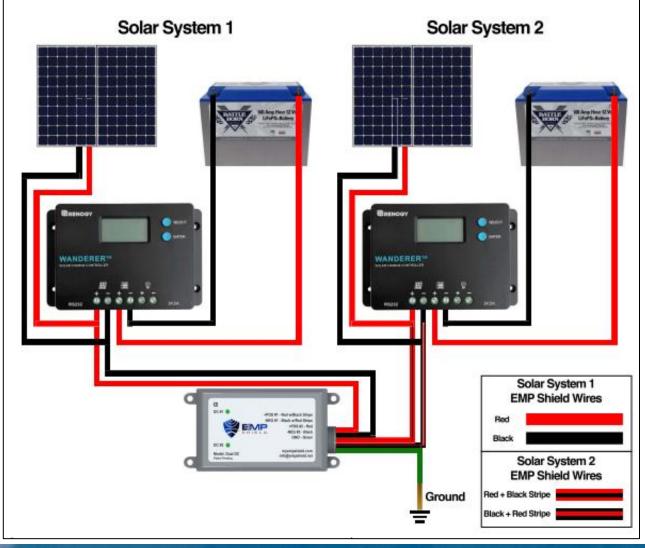
Watch installation video

EMP Shield -Solar

Solar Models

- EMP Shield 48 Volt DC (DC-48V-W)
- EMP Shield 600 Volt DC for Large Solar Applications
- EMP Shield DC 90-120 Volt Solar / Wind Systems (DC-90-120-W)
- EMP Shield 24 Volt DC EMP Shield (DC-24V-W)
- EMP Shield DC 220-300 Volt Solar Wind System EMP Protection (Single-DC-220-300-W)
- EMP Shield Dual 220-300 Volt DC Solar Panel / Wind (Dual-DC-220-300-W)
- EMP Shield Dual 90-120 volt DC Solar Panel / Wind (Dual-DC-90-120-W)
- EMP Shield Dual 300-420 Volt DC Solar / Wind (Dual-DC-300-420-W)
- EMP Shield Dual 48 Volt DC for Solar and Wind Systems (Dual-DC-48V-W)
- Inergy Flex AC EMP Protection Module (Plug-In 110V)
- EMP Shield DC Dual 1000 Volt for Solar and Wind Systems (Dual-DC-1000V)
- EMP Shield Dual 24 Volt DC Solar EMP Shield (DC-DUAL-24V)
- EMP Shield Dual DC MAX 600V For Large Solar Applications
- EMP Shield Single DC 300-420 Volt Solar / Wind EMP Protection (DC-300-420-W)
- Inergy Flex EMP Shield Protection Modules
- Inergy Flex DC EMP Protection Module (EC8 Plug)
- EMP Shield DC 1000 Volt for Solar and Wind Systems (DC-1000V)

Dual DC Solar Installation



Questions About EMP Shield?

1. Main reasons for wanting solar batteries?

- a. Need access to water if SHTF Our well is 650ft deep
- b. Water to drink & shower as well as put out fire if needed
- c. Pay less (or no) money to APS!

2. Why choose solar batteries vs generator

- a. Our home is all electric (no propane)
- b. Didn't want to store gasoline (it will eventually run out)

3. Why did we choose Verde Solar Power

- 1. They could work with our old solar panels and add more
- 2. Great customer service
- 3. Good pricing



Contact:

Dean Kaliakmanis Jr. President, Verde Solar Power 732-804-2152 cell dean@verdesolarpower.com

Original Solar Panels

• SunPower, which has filed for bankruptcy

Why did we need additional solar panels

- SolorOne underestimated our need
- Produce enough energy to store in the batteries for use during peak hours & night
- If SHTF we can still run a good portion of the house on the solar batteries
- What products did we choose?
- Volt Batteries
- LuxpowerTek Inverters



Why Volt Bank Batteries

- Affordable
- NOT Lithium ion cobalt like Tesla
 - So they won't blow up!

Why Two Inverters

- Each inverter can only hold 6 breaker panels, regardless of amps
- We wanted to have at least 12 breakers



What did we backup?

- Well Pump
- Fridge
- Microwave
- Security Cameras
- Flood lights & all of the ceiling fans
 - We will NOT have AC!
- Almost all of the outlets
 - Plug in appliances, like Coffee!
 - Medical equipment, like sleep apnea machines
 - HAM Radio
 - TV can watch DVDs

What we Did NOT backup!

- Range (takes 2 breakers)
- Water Heater (takes 2 breakers)
- Dishwasher
- Washer/Dryer
 - Installed a washboard sink in the laundry room



Installation – How long did it take

- Total time was about 1.5 months
 - Need APS approval
 - Need Yavapai County approval
- Installation stages
 - Panels were up within a week
 - Initial electrical work took about 2 weeks
 - Waiting for approvals about a month
 - Final hook up



Dean Kaliakmanis President, Verde Solar Power

Questions?