



EEP undertakes the hardening of critical facilities against the damaging and disrupting effect an EMP produces.

## **Specification:**

Protection generally comprises a Faraday cage, coupled with the necessary electrical filters and surge suppression systems. All cables - power, signal, data and communications (both copper and fibre optic) - entering and exiting the protected area need to be suitably protected.

This work may take the form of a room, a whole building or simply the manufacture and supply of our EMP protected enclosures, cabinets or doors.

To ensure compliance with the high international performance standards needed to protect key infrastructure installations, EEP developed specific test equipment for this critical task.

## **HEMP Filters (High Attitude Electromagnetic Pulse)**

- These high performance range of single phase and three phase telephone and control line filters are specifically designed to prevent interference from EMP pulses.
- EEP HEMP filters are designed for pulse performance and protect the incoming supply, as well as protecting against surges produced from solar flares, nuclear weapons and lightning strikes.
- The carefully designed filters can be developed for any military, homeland security, public utility or commercial application.
- Other advantages of the HEMP filters include its minimal weight and compact footprint.
- The comprehensive range of HEMP filters, including Standard Performance, Extended Performance, Control Line and Telephone Line are manufactured according to the highest standard, and are utilised for a variety of applications worldwide.
- **Standard Performance Filter Range:**
- This range of single and three phase power filters, meet the PCI (Pulse Current Injection) requirements to filter Mil Std 188-125 E1 and E2 pulses.

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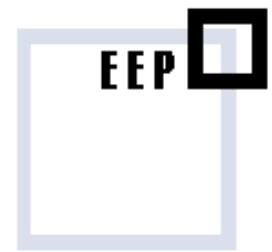
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- **Extended Performance Filter Range:**
  - These HEMP filters also possess the ability to filter Mil Std 188-125 E1 and E2 pulses, but are equipped with increased insertion loss performance specifically for applications where additional performance is required over normal HEMP capabilities.
  - All the lines feature high energy varistor transient suppressors, to offer superior continuous wave EMC performance in a small package.
- **Control Line Filter Range:**
  - These multi-line HEMP protection filters are specifically for control lines and are suitable to be used in various HEMP protected installations.
  - All lines are individually filtered and feature inductive input, to offer both good continuous wave EMC performance and superior transient handling performance.
  - All lines also feature high-energy varistor transient suppressors at the input end.
- **Telephone Line Filter Range.**
  - A range of telephone protection filters are available for HEMP protected installations meeting PCI requirements of Mil Std 188-125 E1 and E2 pulses.

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