



Product Focus

EMP Pulse protection modules for generator applications

By recognising the on-going requirements for the integrated hardening of military field electrical power supplies, MPE have been successful in winning a number of major contracts to provide HAEMP / LEMP protection modules for battlefield generators.

Military generator design issues

- Protect against NEMP/LEMP/HAEMP threats
- Custom modules designed to compliment the architecture of the generator module
- Provide maximum protection in the minimum of space
- Low filter weight required
- Minimal filter heat dissipation
- Optimal cost/protection criteria
- Maintainable & replaceable surge protectors
- Low acoustic signature

Solutions

- MPE custom design capability
- Innovative design solutions
- Option of built in connectors to increase functionality
- MPE offer confidence as a supplier who can design and manufacture key components and have extensive experience of your applications



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Background, experience & capabilities

MPE's reputation as one of Europe's leading filter specialists is based on over 80 years of experience in the design, development and production of high performance RFI/EMC/NEMP/ Tempest filters. Our commitment to a policy of continuous product development and innovation has resulted in one of the most comprehensive ranges of filter products available from a single manufacturer. All our manufacturing is done on site and we are approved to BS EN ISO 9001:2000. Our unrivalled capability and experience enables us to design and build filters to satisfy the exacting requirements of Military customers and we have extensive experience of Mobile and Deployable Shelter applications. Within our numerous proprietary designs, many have been: N.A.T.O. listed; Fighting Vehicle (FV) registered; or adopted as Defence Standards.

Standard products manufactured by MPE range from power filters with full spectrum performance up-to 2400 Amps through to telephone/data and control filters in multi-line packages. It should be noted that many of the filter ranges available offer 100dB performance from 10kHz. to well above 10GHz. Non-standard requirements can be fulfilled by a custom designed filter and members of our design team are available to offer technical support. We draw on a database of over 20,000 custom designs to reduce design time and extensive use is made of our own capacitor and filter design software. Our development test laboratory is well equipped with specialist facilities and is capable of carrying out a variety of special tests including high energy EMP pulse injection testing.



Mini Case Study

FEPS, Field electrical power source

FEPS is a range of highly mobile, diesel powered generators that can be used for many general applications. The FEPS unit incorporates 'stealth' technology to achieve low acoustic, thermal and radar signatures, reducing its chances of being detected by the enemy.

MPE won the EMP protection contract for the prestigious FEPS generator programme by offering significant technical support resulting in a space saving high performance solution. The FEPS filter specification demanded innovative solutions both in electrical performance and mechanical system integration. MPE has also designed and manufactured filters for Insys, Hitzinger & Mawdsleys.

Although MPE has an extensive range of catalogued products, many of which can form an excellent basis for addressing the above design issues, we suggest you contact MPE with details of your project for specific technical advice.