

PulseShield™ Transportable HEMP Filter



Modern operations rely on highly mobile, electronics-dense systems that must remain operational in electromagnetic contested environments. Transportable shelters, tactical vehicles, mobile power sources, and expeditionary command-and-control platforms face increasing risk from High Altitude Electromagnetic Pulse (HEMP) and Intentional Electromagnetic Interference (IEMI) events.



- **Designed for Mobility:** Compact, lightweight, mobile-ready design
- **Fast Integration & Retrofit:** Industry-standard IEC and NEMA interfaces
- **Mission Continuity:** Protects electronics from E1/E2 pulses
- **Lower Program Risk:** MIL-STD compliant, proven architecture

Challenge	Our Solution	System Impact
SWaP constraints limit traditional HEMP protection	Compact, lightweight design	Enables deployable survivability without redesign
Need for rapid deployment and retrofit	Standardized, plug-and-play interfaces	Speeds integration and reduces downtime
High electronics density increases vulnerability	MIL-STD-188-125-1A (E1/E2) compliant filtering	Protects critical systems from transient damage
Exposure in contested, expeditionary environments	Transportable HEMP protection for mobile platforms	Ensures mission assurance in field

Where Spectrum Delivers Value: Delivering compact, transportable HEMP protection that ensures mission continuity in electromagnetically contested environments.



Applications



Electronic
Warfare



Radar



Satellites



Avionics

AC Power 125 VAC HEMP Filters



Protects AC power lines from HEMP/EMP events with high-energy transient suppression and EMI filtering to ensure system continuity

- Rated Voltage: 125 VAC, 60 Hz | Clamping Voltage: 340 VDC
- Operating Temperature: -40°C to +50°C | Peak Pulse Current: 70000
- Model Numbers
 - 52-1700-402: 6A | 52-1700-404: 16A | 52-1700-406: 30A

AC Power 277 VAC HEMP Filters



Protects AC power lines from HEMP/EMP events with high-energy transient suppression and EMI filtering to ensure system continuity

- Rated Voltage: 277 VAC, 60 Hz | Clamping Voltage: 710 VDC
- Operating Temperature: -40°C to +50°C | Peak Pulse Current: 70000
- Model Numbers
 - 52-1700-602: 6A | 52-1700-604: 16A | 52-1700-606: 30A

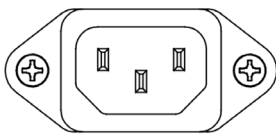
DC Power 72 VDC HEMP Filters



Protects DC power systems from HEMP/EMP-induced transients, safeguarding critical electronics in demanding environments.

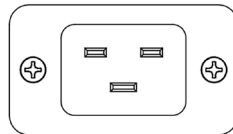
- Rated Voltage: 72VDC | Clamping Voltage: 220 VDC
- Operating Temperature: -40°C to +50°C | Peak Pulse Current: 25000
- Model Numbers
 - 52-1700-301: 6A | 52-1700-302: 16A | 52-1700-303: 30A

Provided in three input and amperage levels for application flexibility



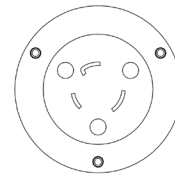
IEC 320-C14

- Current: 6A
- Length: 9
- Height: 4.5



IEC C20

- Current: 16A
- Length: 9
- Height: 4.5



NEMA L6-30P

Twist Lock

- Current: 30A
- Length: 12.25
- Height: 5



About Spectrum Control

Spectrum Control is a mission-focused technology company delivering innovative, adaptable solutions across RF, optical, power, digital, and EMI protection that go beyond specifications to support system performance and program success.

RF Signal Chain

Power/Protect/
Interconnect

Communications
& Data Layer

To learn more about these products or
Spectrum Control email us at
sales@spectrumcontrol.com

Learn More 

