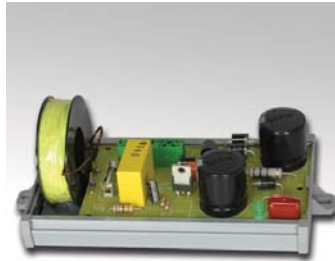
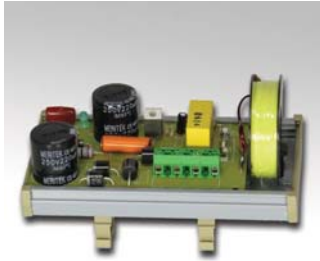


Open Chassis Modules



100% Surge Protection, 0% Failure

While there are many components that can be used to attenuate transients, none alone offers the robust, high reliability solution of Zero Surge's design. Diodes of all varieties degrade in the presence of excess voltages such as transients. Fuses often blow far too late after a surge has caused damage. Circuit breakers do not protect against short duration power events. The utility of crowbar and clamping devices depreciates through proper use. Filters are the most reliable and robust technology for attenuating unwanted frequencies when rated properly. Zero Surge's series mode filter is activated by a high frequency signal, not necessarily voltage rise, providing high reliability and performance.

Zero Surge's core technology has been certified for performance and endurance, in addition to safety. It was subjected to 1,000 worst case surges of 6,000 Volts/3,000 Amps in 30 second intervals without any resulting degradation or failure. This equates to 10 years of worst case surges, but Zero Surge's in-service history proves that the products will serve far beyond a 10 year life. There have been no reports of surge failures, no fires, and no recalls since Zero Surge began manufacturing in 1989.

All Zero Surge OEM Modules contain Spectrum WVR® Wide Voltage Range Technology - Non-MOV filter technology, operates over a wide voltage range of 85V-175V (120VAC) or 150V-265V (240VAC-European), filters dangerous surge energy with low let-through voltage. Available in 5A, 8A, 15A, and 20A.

Features:

- Increases application reliability
- Small footprint
- Operates over a wide voltage range
- Certified to UL standards, simplifying final certification process
- Repeatedly suppresses worst case surges
- No metal oxide varistors (non-MOV technology)
- Non-sacrificial—does not wear out or degrade
- Made in USA
- 10 year warranty

Model	Item #	Max Amperage Voltage (AC) / Hz	Over-current Protection	Wire Connector
OEM5-5W-120-DIN	#002-00501	5A / 120V / 50-60 Hz	5x20mm 5A Slow Blow Fuse	4 Position Terminal Block (Hot In / Hot Out / 2 Neutral Connections)
OEM9-5W-120-DM	#002-00511	5A / 120V / 50-60 Hz		
OEM7-8W-120	#002-00521	8A / 120V / 50-60 Hz	5x20mm 8A Slow Blow Fuse	

Technical Specifications	OEM5-5W-120-DIN #002-00501	OEM9-5W-120-DM #002-00511	OEM7-8W-120 #002-00521
Current / Voltage Rating	5A / 120V	5A / 120V	8A / 120V
	*US 120V, single phase (one hot leg and a neutral tied to earth ground at service entrance). Operates over a voltage range of 85-175V.		
Over-current Protection	5x20mm, 5 Amp, 250V Slow Blow Fuse		5x20mm, 8A, 250V Slow Blow Fuse
Operating Temperature Range	0-40° C / 32-104° F		
Technology/Mode	Series Mode with Wide Voltage Range (WVR) Technology, Mode 1 applications, L-N (filter operates independent of ground line)		
Agency Certifications	ETL & cETL certified to UL 1283 5th Edition, CSA 22.2 No. 8-M1986 (File #3162119)		
Limiters	Series surge reactor current limiter; cascaded, auto-tracking dual polarity dynamic surge and noise sensing; bi-modal dynamic filtering. Parameters optimized for switch-mode power supply protection.		
Dynamic Filtering Onset	120V Modules—172V nominal, 2V above peak line voltage (auto-tracking, WVR)		
Max Surge Voltage Let-through	120V Modules—130V above peak line voltage @ 6,000V/3,000A for ANSI C62.41 Category B3/C1.		
Max. Applied Pulse Voltage	6,000V (1.2 x 50 µs—ANSI C62.41 Combination Wave)		
Max. Applied Pulse Current	Does not apply due to internal current limiting.		
Joule Rating	No metal oxide varistors to wear out; therefore, not applicable to this technology.		
Endurance Rating	1,000 worst case pulses: ANSI C62.41, Category B3/C1 pulses (6,000V/3,000A); >10,000 pulses @ 4,000V; >100,000 pulses @ 2,000V		
Filter Slew Rate	5,000V/µs disturbance reduced to 35V/µs within AC power wave envelope; 10V/µs outside the power wave envelope		
EMI/RFI Filter Response (50 ohm Rgen., load)	Bi-directional, wave tracking — 3 dB @ 7 kHz; 25 dB @ 100 kHz; 38 dB @ 300 kHz		
Enclosure	No enclosure, open chassis modules.		
Weight	1 lb.	1 lb.	18 oz.
Dimensions	3.25" H x 5.5" W x 3.75" D	2.25" H x 6.75" W x 3.75" D	1.5" H x 3" W x 8" D
Options:	OEM5-5W-120-DIN and OEM9-5W-120-DM are available with enhanced 240V boards for European applications.		

*L-N reversal can compromise any appliance's safety and performance. Check line wiring for hot/neutral reversal prior to connecting product. Warning: Must be installed by a licensed electrician following NEC and local codes.

Suggested applications: Medical equipment, testing simulators, sensor control equipment, PLC protection, equipment operating 24/7, kiosks, tactical automated security systems, and scales.



100% Surge Protection, 0% Failure • Are you Zero Surge protected?

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