

Plug-in Point of Use Protection



100% Surge Protection, 0% Failure

Protecting electronics at the point-of-use is quick, convenient, and most effective. Zero Surge series mode products protect connected equipment repeatedly from even worst case surges without degradation or failure. 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.

Zero Surge's Spectrum Wide Voltage Range (WVR) technology, effectively senses and suppresses surges on your 120V power line even when the power is low at 85 Volts or high at 175 Volts and anywhere in between. This is especially beneficial when the voltage is variable and unpredictable, during brownout and blackout conditions, and when standby generators are in use. It also provides the benefit of conditioning the power line by removing EMI and RFI disturbances which can disrupt data signals and cause electronic equipment to malfunction. These disturbances can also degrade the electronic components in the equipment, shortening the life expectancy.

The superior power conditioning and high reliability provided by Zero Surge's series mode with Spectrum WVR technology makes it the preferred choice in the A/V and IT industry.

Features:

- 1U Rack Mountable
- Isolated receptacles
- Built-in capacity matching, resettable circuit breaker
- 10R units have 2 switches—master on/off and auxiliary controls 4 rear outlets
- 10R units easily convert to modular units
- Repeatedly suppresses worst case surges
- No metal oxide varistors (non-MOV technology)
- Filter operates independent of ground line—can be used in ungrounded outlets
- Non-sacrificial—does not wear out or degrade
- Made in USA

| Model | Item # | Capacity | Input | Output | Cord Length/Plug |
|---------------------------------------|------------|------------|------------|------------------------------------|---------------------------|
| 8R-1U-20W-I | #002-00166 | 20A / 120V | NEMA 5-20P | NEMA 5-15R (x4) NEMA 5-20R (x4) | 8.5' Cord / Straight Plug |
| 10R-1U-15W-I (Converts to modular) | #002-00142 | 15A / 120V | NEMA 5-15P | NEMA 5-15R (x10) | 10' Cord / Straight Plug |
| 10R-1U-20W-I (Converts to modular) | #002-00153 | 20A / 120V | NEMA 5-20P | NEMA 5-15R (x6) NEMA 5-20R (x4) | 8.5' Cord / Straight Plug |

| Technical Specifications | 8R-1U-20W-I #002-00166 | 10R-1U-15W-I #002-00142 | 10R-1U-20W-I #002-00153 |
|--|--|----------------------------|----------------------------|
| Current / Voltage Rating | 20A / 120V | 15A / 120V | 20A / 120V |
| | *Wide Voltage Range (WVR) Technology operates over a voltage range of 85-175V. | | |
| 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, UL 1363, 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 | 172V nominal, 2V above peak line voltage (auto-tracking, WVR) | | |
| Max Surge Voltage Let-through | 130V above peak line voltage @ 6,000V/3,000A for ANSI C62.41 Category B3/C1 Combination Wave | | |
| 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 | Magnetic shielding steel, black powder coat finish | | |
| Weight | 9.25 lbs | 9.38 lbs | 9.5 lbs |
| Dimensions | 1.75" H x 19" W x 8.5" D | 1.75" H x 19" W x 8.5" D | 1.75" H x 19" W x 8.5" D |
| Options: | Longer cord lengths are available for all units. A NEMA L-5-20P locking plug is available for the 8R-1U-20W-I. | | |

*L-N reversal can compromise any appliance's safety and performance. Check line wiring for hot/neutral reversal prior to connecting product.

Suggested applications: IT equipment, A/V equipment, home theater and home electronics and equipment requiring 20A capacity and 20A receptacles.



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

ZERO SURGE INC. • 889 STATE RT 12 • FRENCHTOWN, NJ 08825 • PHONE 800-996-6696 • FAX 908-996-7773
www.ZeroSurge.com