

TECHNICAL SPECIFICATIONS

Voltage Rating: All models are rated for 120 volts, single phase

Amperage Ratings:

15 amps - 2R15W, 6R15W-4USB (both versions), 8R15W, 8R15W-I, 10R-1U-15W-I

20 amps - 2R20W, 8R20W, 10R-1U-20W-I

Receptacles: UL Components – 10,000 Insertion Rating

Operating Voltage Range: 85-175 VAC

Maximum Continuous Operating Voltage (MCOV) = 175 VAC

Filter Technology: Spectrum WVR Wide Voltage Range

Safety Certifications:

CSA 22.2 No. 8, UL 1283, 8R & 10R Series also UL 1363. ETL File #3162119.

Operating Mode: Mode 1 applications, L-N

Operating Temperature Range: 0-40° C / 32-104° F

Limiters:

Inductor surge current limiter, auto-tracking dual polarity voltage filters. Parameters optimized for switch-mode power supply protection.

Supplemental Filtering Onset:

172 volts nominal, 2 volts above peak line voltage (auto-tracking-WVR).

Max. Surge Voltage Let-through*:

100 volts above peak line voltage @ 6,000 volts, 3,000 amps for ANSI C62.41 Category B3/C1 Combination Wave surge.

Max. Applied Pulse Voltage:

6,000 volts (1.2 x 50 microseconds- ANSI C62.41 Combination Wave).

Max. Applied Pulse Current:

>100,000 amperes (unlimited due to internal current limiting) (8x20 microseconds).

Joule Rating:

Not applicable to this filter technology. No MOVs to wear out.

Endurance Rating:

1,000 worst-case surges: ANSI C62.41, Category B3/C1 pulses (6,000 V, 3,000 A); >10,000 surges at 4,000 V, > 100,000 surges at 2,000 V.

Filter Slew Rate:

5,000 volts per microsecond disturbance reduced to 28 volts per microsecond within AC power wave envelope.

EMI-RFI Filter Response:

Bi-directional, wave tracking: with 50 Ohm generator and load: 3 dB @ 5kHz, 26 dB @ 100 kHz; 38 dB @ 300 kHz.

X10 Carrier Current Compatible:

Enhances powerline carrier signal operation.

* Note: Surge Voltage Let-through is the surge voltage that exceeds the powerline peak voltage.

TROUBLE SHOOTING

1. Always check connection and plug contact to ensure that total contact is made by fully seated plug-in receptacle.
2. Check outlet for power. Units with ON/OFF switch should be turned ON to operate.
3. If the built-in thermal circuit breaker trips, the electrical load has exceeded the product rating. If that happens, unplug some of the load and let the circuit breaker cool down. Then, push RESET. Total load requirement must be below the suppressor's amp rating.

10 Year Limited Warranty

Zero Surge Inc. warrants its products to be free from defects in material and workmanship under normal service conditions, including energization by means of standard 120 volts, 60 Hz electrical power, for a period of 10 years.

The manufacturer's obligation under this warranty is limited to repair or replacement parts, or entire units of comparable or better model, at the manufacturer's sole discretion, which are found by the manufacturer to be defective. This warranty does not apply to products which have been damaged by negligence, accident, misapplication, or have been repaired or modified by anyone other than the original manufacturer.

Lifetime Service Agreement

The manufacturer for the benefit of the original holder of the consumer warranty, will test and repair any unit which has been subjected only to normal service conditions and maintained or repaired only by the manufacturer. The purpose is to restore the unit to original operating performance specifications, or replace the unit at the manufacturer's option, at any time, upon payment of 20% of the current retail list price (at time of service) of either the unit serviced or its equivalent successor model. The unit must be returned via prepaid shipping plus a 20% service charge for maintenance. This is an optional service and may be discontinued based on parts availability.

Please visit www.ZeroSurge.com for latest information.

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Product Information Manual

POINT OF USE MODELS



2R Series

2R15W
2R20W



6R Series

6R15W-4USB (V1&V2)

8R Series

8R15W
8R15W-I
8R20W



10R Series

10R-1U-15W-I
10R-1U-20W-I

Congratulations on your selection of this patented, noise and surge protection technology — the finest power quality filter technology available in the industry today. We continue to monitor power quality requirements based on the rapid growth of electronics and electrical equipment demands for the 21st century along with the power quality issues of today.

Zero Surge products were the first in the USA to pass 1000 industry standard surges of 6,000 volts, 3,000 amps in 30 second intervals. This is the equivalent of 10 years of the worst-case surges that can occur in a building! It is truly unprecedented performance and endurance.

To ensure proper use and to maximize the value of your investment, please take a few minutes to review this easy-to-use product manual. After installing your unit, you can use it with the assurance that you have dependable, lifetime protection from noise, spikes, and surges.

If you have any questions, please contact us, and thank you for your purchase.

Sincerely,

Jim Minadeo

Jim Minadeo
President



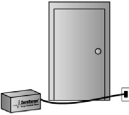

UPON RECEIPT

Please check packing slip to confirm that you have received the correct model. If not, or if the unit has been damaged in shipping, please contact us below immediately. No returns will be accepted without a return authorization number on the box.

Zero Surge Inc.

889 State Route 12, Frenchtown, NJ 08825
Tel.: 800-996-6696; E-mail: info@ZeroSurge.com

SAFETY INSTRUCTIONS

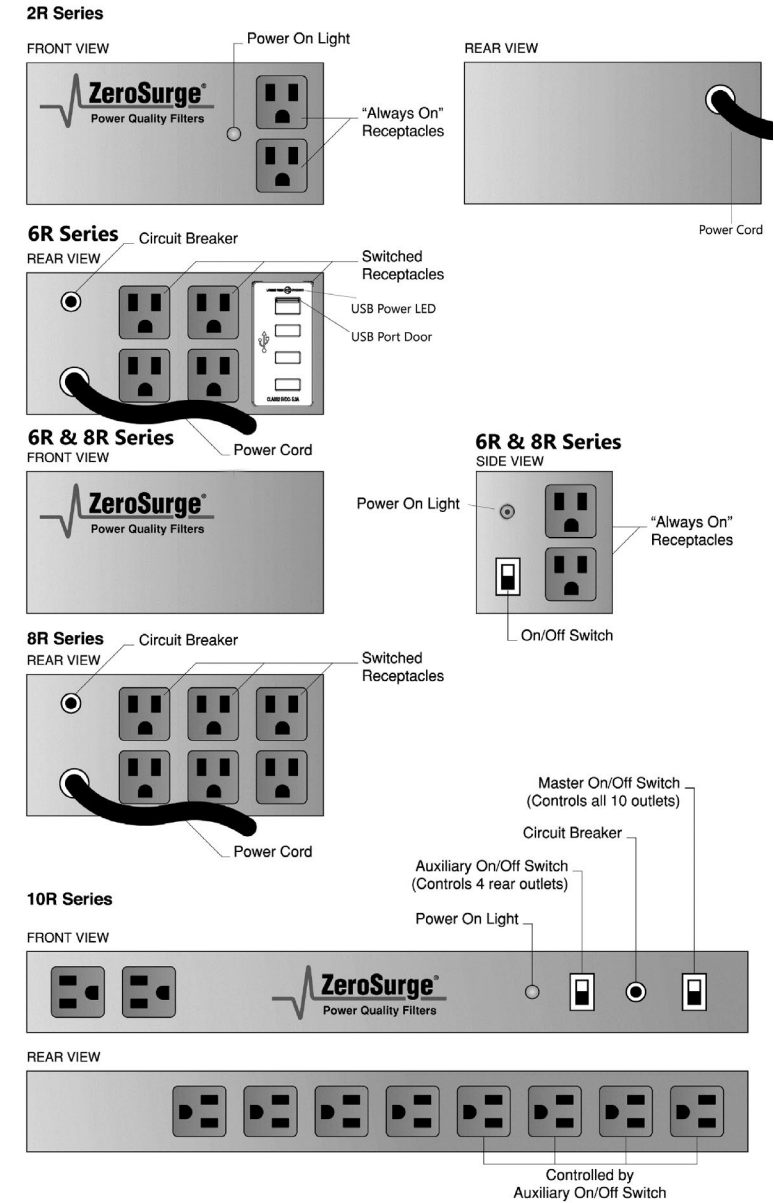
- Use only properly polarized outlets. If you are not sure of the outlet or have a question, please contact an electrician before plugging in the unit. 
- Do not place product on a wet area or touch the unit when you are wet. If product becomes wet, you must cut off power to the unit immediately. 
- Install in a secure location that avoids passage ways, doorways, steps or areas not protected from traffic. Make sure all cords are securely wrapped and out of the way of traffic or other objects to avoid cord damage and protect against abrasion. 
- Do not plug in/near any heat producing equipment (radiators, stoves, heaters, etc.). 
- Always connect product **directly into the wall receptacle**.
 - (For 2R series only) When using an uninterruptible power supply (UPS), plug the UPS into the Zero Surge unit.
- Clean only with a dry cloth. Never use cleaning agents such as ammonia.
- Never overload the product with extension cords (may cause fire or electric shock) or share extension cords with equipment that may generate surges (copiers, laser printer).
- Discontinue use of the product if any of the following conditions exist:
 - damage to the plug
 - unit is exposed to liquids, rain, or water
 - abnormal operation or change in performance is observed
 - unit is damaged from being dropped or hit by heavier objects.

IMPORTANT INSTALLATION INSTRUCTIONS

- Plug directly into standard 3-wire AC receptacle (the unit does not rely on the ground circuit for effective surge protection but proper grounding at the service entrance must exist). If you have any questions about your electrical environment, contact your local electrician.
- Do not plug the unit into a surge suppressor or uninterruptible power supply (UPS).
- Do not use a surge protector in conjunction with your unit.
- Zero Surge products are not recommended for applications with large compressors (i.e., refrigerators, air conditioners) due to their high start-up current.
- See 6R15W-4USB supplement for specific USB instructions.

CONFIGURATIONS

15 amp products can be plugged into a standard 3-wire AC outlet. 20 amp models require 20 amp wiring and receptacles.



Up to 15 amps can be drawn from any outlet, but the total current draw for the product will be 15 or 20 amps maximum (model dependent).