

# Professional multi circuit protection, with no footprint!



The PF-420 is the perfect protection solution for multi-circuit residential AV systems where space is at a premium. This compact 120 Volt / 80 Amp load center is hardwired as a subpanel at the service panel or the equipment room and is designed to provide robust protection required for multi-branch circuit applications.

Engineered with professional grade Advanced Series Mode® Surge Elimination Technology and Impedance Tolerant® EMI/RFI noise filtering, the PF-420 is the only NEMA enclosure protection product in the market that eliminates surges and transients that can degrade AV system performance.

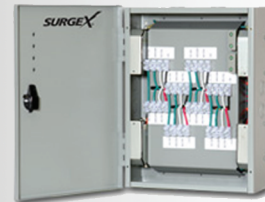
The PF-420 frees up valuable rack space, eliminates unsightly wires, meets code for installation at the service entrance, sub-panels, and in ceiling plenums, and will protect your robust AV system in more ways than one.

## KEY FEATURES

- Advanced Series Mode technology eliminates surge energy up to 6,000 Volts/3,000 Amps, without producing ground contamination or common-mode disturbances
- Impedance Tolerant EMI/RFI filtering
- 4 x 20 Amp circuits enable you to protect a variety of equipment
- NEMA rated magnetic shielding steel enclosure
- Quality craftsmanship, made in the U.S.A.



# Protection You Can Believe In.



## Magnetically shielded NEMA enclosure

The PF-420 is built for dedicated NEMA circuit applications and is housed in a 16" x 12" x 4" magnetic shielded NEMA enclosure.



## Fail safe protection eliminates ground contamination or common-mode disturbances

Unlike conventional MOV based surge protectors, the PF-420 completely eliminates and stops all surges up to 6,000 volts without producing disturbances and ground contamination that can degrade the performance of your AV system. With SurgeX A-1-1 Certified Advanced Series Mode® technology, your equipment will run better, sound better, and your picture quality will improve in the blink of an eye.



## Patented technology provides a complete protection package

Only SurgeX will protect your equipment in more ways than one. The XN120 also features an Impedance Tolerant® EMI/RFI Filter and is backed with an industry leading Sixteen Year Product Warranty.



## Multiple 20 Amp circuits enable you to protect a variety of equipment

The PF-420 80 Amp load center features four independent 120 Volt / 20 Amp circuits to allow you to safeguard a variety of equipment and is hardwired as a subpanel at the service panel or the equipment room.



## Quality craftsmanship, made in the U.S.A.

All SurgeX products are proudly made in the U.S.A. and are handcrafted in our Knightdale, North Carolina manufacturing facility. Our products are engineered and assembled individually by hand to ensure the highest quality.

## TECHNICAL SPECIFICATIONS

**Load Rating:** 20 amps per circuit @ 120 volts (80 amps total)

**Power Requirement (no load):** 15 watts per circuit

**Surge Let-Through Voltage (6000-volt surge):** 0 volts

### UL 1449 Adjunct Classification Test Results:

1000 surges, 6000 volts, 3000 amps, B3 pulse;  
Measured suppressed voltage: 170 volts; no failures.

**Federal Guidelines:** Grade A, Class 1, Mode 1 (CID A-A-55818)

### EMI/RFI Filter, Normal Mode (50-ohm load):

40 dB @ 100 kHz; 50 dB @ 300 kHz;  
50 dB @ 3 MHz; 50 dB @ 30 MHz

### EMI/RFI Filter, Common Mode (50-ohm load):

18 dB @ 300 kHz; 30 dB @ 1 MHz;  
50 dB @ 5 MHz; 50 dB @ 20 MHz

**Maximum Applied Surge Voltage:** 6000 volts\*

### Maximum Applied Surge Current:

Unlimited, due to current limiting\*

### Maximum Applied Surge Energy:

Unlimited, due to current limiting\*

### Endurance (C62.41-1991 Category B3 pulses):

1 kV > 500,000; 3 kV > 10,000; 6 kV > 1000

**Dimensions:** 16.0" H x 12.0" W x 4.0" D (40.6 x 30.5 x 10.2 cm)

**Weight:** 30 lbs (13.6 kg)

**Temperature Range:** 5° to 35° C

**Humidity Range:** 5% to 95% R.H., non-condensing

**Agency Listings:** ETL and cETL (UL 1449, 2nd edition;  
CSA C22.2 No.8-M1986, R2000)

\* 1.2 x 50  $\mu$ s pulse, industry standard combination wave surge, as per IEEE C62.41

Specifications subject to change without notice. SurgeX is a division of Electronic Systems Protection, Inc.

This product, including its components and/or processes carried out thereby, are covered by one or more of the following: U.S. Pat. No. 4,870,534; 4,870,528; 6,728,089; 6,744,613; 7,068,487; Can. Pat. No. 1,333,191; 1,332,439. Other Patents Pending.

