

# EP-2050 RESIDENTIAL PROTECTION



The **EP-2050** is an industrial electrical surge and noise filtration system adapted for the residential marketplace. The **EP-2050** eliminates detrimental power disturbances that permeate the residential electrical distribution system. The compact unit provides automatic protection for industrial, residential and marine electrical distribution systems, up to 200A load panels.

## THE EP-2050:

ABSORBS, DISSIPATES & REMOVES

- Transient voltage surges and spikes
- Frequency Noise Between 3kHz-1MHz
- Ring waves

DOES NOT SHUNT ENERGY TO GROUND.

The facility ground is not relied on for performance or survivability.

## EP-2050 GENERAL SPECIFICATIONS

### OPERATING FREQUENCY

45 - 65 Hz

### FREQUENCY ATTENUATION

-20 dB/decade roll-off starting at 2.5 kHz

### MAX SURGE CURRENT

12.5 kA per mode

### MCOV

20% above rated voltage

### SAFETY APPROVALS

Circuit is built to meet Safety Standards:  
UL 1449 4<sup>th</sup> Edition Type 2 & Type 3 SPD  
CSA std. c22.2 No. 8-2013 Ed 5

### SAFETY RATINGS

Fire Rating 94V-0

### OPERATING ENVIRONMENT

Approximately -25° C to 65° C

### RESPONSE TIME

Primary Response Time: Instantaneous  
Key Event Time: Approx. 1 Nanosecond

### COMPLIANCE

NEMA LS-1, NEC Surge Suppression Standards, Electrical Notice 516

### CONNECTION

Wire leads. Size: 14 AWG Length: 3'

### MATERIALS

Aluminum Housing, LED Indicator Lamps, 14 AWG 600 V rated Wire.  
Circuit encapsulated in epoxy to retain integrity of circuitry in failure mode.

### ACCESSORIES

Amber LED indicates active phase

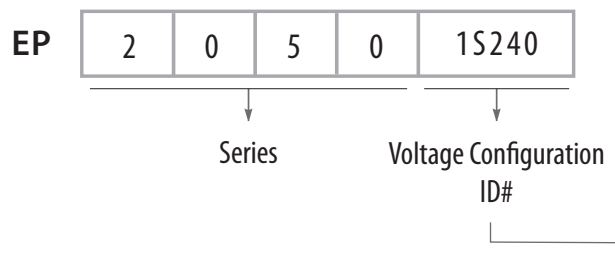
### DIMENSIONS & WEIGHT

100-127 V Units: Diameter: 3" Depth: 2.5" Weight: 1.5 lbs.  
Compact for easy installation.

200-250 V Units: Diameter: 4.34" Depth: 3.35" Weight: 3 lbs.  
Compact for easy installation.

## EP-2050 PRODUCT ORDERING GUIDELINES

### MODEL NUMBER



### VOLTAGE CONFIGURATIONS

| SYSTEM VOLTAGE          | PROTECT MODE | VPR | SYSTEM CONFIGURATION | VOLTAGE ID# |
|-------------------------|--------------|-----|----------------------|-------------|
| Single Phase<br>100/200 | L-N          | 400 | 3 Wire + G           | 1S200       |
| Single Phase<br>120/240 | L-N          | 400 | 3 Wire + G           | 1S240       |