

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 4th 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.

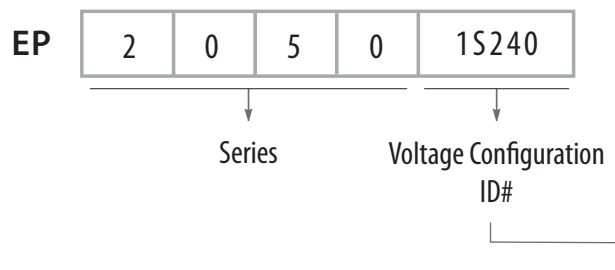
Compact for easy installation.

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 100/200	L-N	400	3 Wire + G	1S200
Single Phase 120/240	L-N	400	3 Wire + G	1S240