

# Rail Secondary Power Surge Protector, DC Circuits



## FEATURES

Hybrid TVSS technology

High surge rating provides a high level of protection and long operational life

Internal patented thermal disconnect system designed specifically for operation of DC systems to assist safe disconnect at end of life

Low let-through voltage

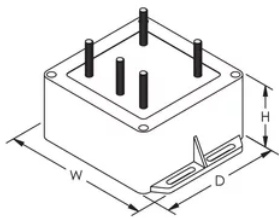
Sine wave filter for RFI/EMI attenuation

## SPECIFICATIONS

| Catalog Number                                | EPD1224ATAAR1    |
|-----------------------------------------------|------------------|
| Nominal System Voltage (Un)                   | 12 VDC<br>24 VDC |
| Max Continuous Operating Voltage (Uc), 12 VDC | 18 VDC           |
| Max Continuous Operating Voltage (Uc), 24 VDC | 36 VDC           |
| Voltage Protection Level, 12 VDC (Up)         | 34 V @ 20 kA     |
| Voltage Protection Level, 24 VDC (Up)         | 41 V @ 20 kA     |
| Rated Load Current (IL)                       | 30A<br>60A       |
| Filtering                                     | -65 dB @ 100 kHz |
| Distribution System                           | Two wire         |

|                        |                                                                                      |
|------------------------|--------------------------------------------------------------------------------------|
| <b>Catalog Number</b>  | <b>EPD1224ATAAR1</b>                                                                 |
| Aggregate Surge Rating | 20                                                                                   |
| Status Indication      | LED                                                                                  |
| Technology             | Metal Oxide Varistor (MOV)<br>Silicon Avalanche Diode (SAD)<br>In-line series filter |
| Connection Type        | AAR Terminals                                                                        |
| Protection Modes       | -ve to +ve                                                                           |
| Humidity               | 0 - 90                                                                               |
| Temperature            | -40 to 70 °C                                                                         |
| Enclosure Material     | UL® 94V-0 Thermoplastic                                                              |
| Enclosure Rating       | IP 20<br>NEMA®-1                                                                     |
| Depth (D)              | 120mm                                                                                |
| Height (H)             | 60.2 mm                                                                              |
| Width (W)              | 120 mm                                                                               |
| Unit Weight            | 0.87 kg                                                                              |
| Complies With          | ANSI®/IEEE® C62.41.2-2002 Cat A, Cat B, Cat C<br>AREMA® requirements                 |

## DIAGRAMS



## WARNING

nVent products shall be installed and used only as indicated in nVent's product instruction sheets and training materials. Instruction sheets are available at [www.nvent.com](http://www.nvent.com) and from your nVent customer service representative. Improper installation, misuse, misapplication or other failure to completely follow nVent's instructions and warnings may cause product malfunction, property damage, serious bodily injury and death and/or void your warranty.

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