XEL-PA10S Surge Protection Series

XEL-PA10S
10KV/10KA Surge Protection Series

Lighting Fixture SPD Family
Low Profile Slim Design

10KA Surge Protection Rating
- Variants available in dedicated 120V, universal 120~277V, dedicated 347V & industrial 480V
- UL1499 Type 5 recognized for easy fixture integration*
- Low profile Slim design for compatibility with modern LED fixture designs
- Available with or without mounting location for smaller profile
- All modes protection: L-N (L-L), L-G, N-G
- -40°C to +85°C operation for indoor or outdoor applications in dry and damp locations
- Materials: RoHS Compliant
- XenerQi Industry Leading 5 Year True Warranty™

*The PA10S series of surge protection devices are UL1449 type 5 certified devices. Type 5 surge protectors are designed to be used in combination with properly rated overcurrent protection within the intended application.

Typical Application

Speciation Data

**Electrical Specifications**

- Max surge current: ANSI C62.41 C-High: 10KV/10KA
- Leakage Current: <0.3 mA
- (In) Surge rating (UL1449): 5KA
- Operating temperature: -40°C ~ +85°C

(See available model table on page 2 for individual electrical specification details)
Mechanical Drawings - Dimensions

(not to scale)

**XEL-PA10S**

- 5.6mm ±0.2
  
- 22.5mm x 1.0
  0.89” ±0.04

**XEL-PA10K (No Mounting)**

- 123.5mm ±0.2
  4.86” ±0.04

- 152.4mm
  6.0”

- 152.4mm
  6.0”

- 104mm ±1.0
  4.1” ±0.04

- 22.5mm ±1.0
  0.89” ±0.04

A *(See Table)*

**Available Models**

<table>
<thead>
<tr>
<th>Part Number*</th>
<th>Max Nominal Voltage (V)</th>
<th>Max Continuous Operating Voltage (MCOV)</th>
<th>Max Limiting Voltage L-N (L-L) (V)</th>
<th>Max Limiting Voltage L-N - G (V)</th>
<th>Max Limiting Voltage (MLV) Up** (V)</th>
<th>Clamping Voltage (V @100A)</th>
</tr>
</thead>
<tbody>
<tr>
<td>XEL-PA10S-120</td>
<td>120</td>
<td>150</td>
<td>540</td>
<td>620</td>
<td>700</td>
<td>360</td>
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<tr>
<td>XEL-PA10S-277</td>
<td>277</td>
<td>320</td>
<td>1140</td>
<td>1210</td>
<td>1300</td>
<td>840</td>
</tr>
<tr>
<td>XEL-PA10S-347</td>
<td>347</td>
<td>420</td>
<td>1420</td>
<td>1590</td>
<td>1600</td>
<td>1120</td>
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<tr>
<td>XEL-PA10S-48Y</td>
<td>480</td>
<td>550</td>
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<td>2130</td>
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* Part numbers shown are for Xenerqi ordering codes. For UL listings add ‘NNA’ to end of part number (Eg. XEL-PA10S-277NNA)

**Up - IEC 61643-11 Voltage protection level; the highest value of residual voltage measurements during the application of impulses of 8/20us nominal discharge current (in); a rounding voltage value of maximum measurement.

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_labels_ Details

**Cases**

- Plastic (Shrink Wrapped)

**Dimensions**

- **Dimensions (S Model)**: 22.5mm x (A)mm x 123.5mm / 0.9” x (A)” x 4.9”
- **Dimensions (K Model)**: 22.5mm x (A)mm x 104mm / 0.9” x (A)” x 4.1”

**Recommended Fixings**: 1x M4 / 8-32 Fastner

**Labels**

- **Dimensions**
  - 152.4mm to scale
  - 152.4mm
  - 104mm ±1.0
  - 22.5mm ±1.0
  - A *(See Table)*

- **Material**: Plastic (Shrink Wrapped)
- **Wire Gauge**: 14AWG (UL1015)
- **Wire Length**: 152.4mm ±3mm / 6” ±0.12”
- **Strip Length**: 9.5mm ±0.5mm / 0.375” ±0.02”

**CHOOSING APPROPRIATE PRODUCT PART NUMBER:**

MATCH OPERATING VOLTAGE ON LUMINAIRE DRIVER WITH ‘MAX NOMINAL VOLTAGE’ FROM MODEL TABLE BELOW.

**ORDER CODE**:

- **NNA**: Use for UL listing
- **XXX**: Voltage Variant
- **S**: with mount hole
- **K**: without mount hole

**Variants**

- **Variants (with Mounting)**: 10kV/10kA Surge Rating
- **Variants (without Mounting)**: 20kV/10kA Surge Rating

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