# XEL-PA20S Surge Protection Series

## 20KV/20KA Surge Protection Series

**Lighting Fixture SPD Family**  
**Low Profile Slim Design**

![Image of Surge Protection Device]

### Variants available:
- UL Type 4 (120 ~ 277V)  
- UL Type 4 (347V)  
- UL Type 5 (10KV/10KA) (120 ~ 480V)

**XEL-PU10-277**  
**XEL-P01C-347 (with series protection)**  
**XEL-PA10S**

### Specification Data

<table>
<thead>
<tr>
<th>Electrical Specifications</th>
<th>Max surge current</th>
<th>ANSI C62.41 C-High: 20KV/20KA(^1)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Leakage Current</td>
<td>&lt;0.3 mA</td>
<td></td>
</tr>
<tr>
<td>(In) Surge rating (UL1449)</td>
<td>10KA(^1)</td>
<td></td>
</tr>
<tr>
<td>Operating temperature</td>
<td>-40°C ~ +85°C</td>
<td></td>
</tr>
</tbody>
</table>

*(See available model table on page 2 for individual electrical specification details)*

### Typical Application

![Typical Application Diagram]

### Choosing Appropriate Product Part Number:

- Match operating voltage on luminaire driver with 'MAX NOMINAL VOLTAGE' from model table.

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\(^1\) 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.
**Mechanical Drawings - Dimensions**

(Not to scale)

- **XEL-PA20S**
  - 5.6mm ±0.2 (0.22"±0.008)
- **XEL-PA20K** (No Mounting)
  - 123.5mm ±1.0 (4.86"±0.04)

**Case**

- Material: Plastic (Shrink Wrapped)
- Unit Weight: TBC
- Dimensions (S Model): 26.5mm x (A)mm x 123.5mm / 1.04” x (A)” x 4.9”
- Dimensions (K Model): 26.5mm x (A)mm x 104mm / 1.04” x (A)” x 4.1”
- Recommended Fixings: 1x M4 / 8-32 Fastner

**Wire Dimensions**

- 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”

**Available Models**

<table>
<thead>
<tr>
<th>Part Number*</th>
<th>Max Nominal Voltage (V)</th>
<th>Max Continuous Operating Voltage (L-N (L-L)) (V)</th>
<th>Max Limiting Voltage (MLV) Up** (V)</th>
<th>Clamping Voltage (V @100A)</th>
</tr>
</thead>
<tbody>
<tr>
<td>XEL-PA20S-277</td>
<td>277</td>
<td>320</td>
<td>1190</td>
<td>1330</td>
</tr>
<tr>
<td>XEL-PA20S-48Y</td>
<td>480</td>
<td>550</td>
<td>2040</td>
<td>2260</td>
</tr>
<tr>
<td>XEL-PA20K-277</td>
<td>277</td>
<td>320</td>
<td>1190</td>
<td>1330</td>
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<td>XEL-PA20K-48Y</td>
<td>480</td>
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<td>2040</td>
<td>2260</td>
</tr>
</tbody>
</table>

* Part numbers shown are for Xenerqi ordering codes. For UL listings add ‘NNA’ to end of part number (Eg. XEL-PA20S-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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