Philips Advance Xitanium outdoor LED drivers with SimpleSet technology are designed to give OEMs ultimate flexibility. The drivers' wide operating windows and simple programming make it easy for luminaire manufacturers to design luminaires of different sizes and lumen levels for outdoor applications.

### Specifications

<table>
<thead>
<tr>
<th>Input Voltage (Vac)</th>
<th>Output Power (W)</th>
<th>Output Voltage (V)</th>
<th>Output Current (A)</th>
<th>Efficiency@ Max Load and 70°C Case</th>
<th>Max Case Temp. (°C)</th>
<th>Input Current (A)</th>
<th>Max. Input Power (W)</th>
<th>THD @ Max Load (%)</th>
<th>Power Factor @ Max Load</th>
<th>Surge Protection (Combi-Wave, KV)</th>
<th>Envir. Protection Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>347</td>
<td>95</td>
<td>20 - 54</td>
<td>0.1 - 2.75</td>
<td>88</td>
<td>Life: -85°C, UL: -90°C</td>
<td>0.32</td>
<td>110</td>
<td>&lt;10%</td>
<td>&gt;0.9</td>
<td>6</td>
<td>UL damp &amp; dry, Type HL</td>
</tr>
<tr>
<td>480</td>
<td></td>
<td></td>
<td></td>
<td>89</td>
<td></td>
<td>0.24</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Enclosure

<table>
<thead>
<tr>
<th>Case Length</th>
<th>Case Width</th>
<th>Case Height</th>
<th>Mounting Length</th>
<th>Overall Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>8.31 (211)</td>
<td>2.31 (58.6)</td>
<td>1.48 (376)</td>
<td>8.91 (226.3)</td>
<td>9.47 (240.5)</td>
</tr>
</tbody>
</table>

### Wiring Diagram

- **Input**
- **Output**
- **Dimming**
  - **Range**
  - **Minimum Output Current** (A)
Xitanium 95W 0.1-2.75A 0-10V Dimming with SimpleSet

Features
- 50,000+ hour lifetime
- Programmable output current through SimpleSet
- Large operating window
- 6kV combi-wave surge rating to comply with ANSI C82.77-5 CAT C

Benefits
- Designed for Class 2 luminaires
- Fast and simple way of programming
- Perfectly suited for COB applications up to 2.6A
- Industry leading dimming range for 95W Class 2 product
- No external surge protection required to pass C82.77-5 CAT C low

Application
- Area
- Roadway
- Parking garages
- Floodlights
- HighBay and mid-bay fixtures

Electrical Specifications
All the specifications are typical and at 25°C Tcase unless specified otherwise.

Product Data

Order Information
- Full Product Code: XH095C275V05BSF1M (Mid-Pack, 10pcs/Box)
- Line Frequency: 50/60Hz
- Min. Mains Voltage Operational: 312 Vac
- Max. Mains Voltage Operational: 528 Vac

Output Information
- Maximum Open Circuit Voltage: <60Vdc
- Output Current Ripple: 15% max @ max Iout
- Output Current Tolerance: <5%
- Protections: Short Circuit, Open Circuit Protection for LED + and LED – and Temperature Foldback

Features
- 0-10V Dimming: 150μA (±3%) source current from driver. See dim curve for detail.
- AOC (Adjustable Output Current): 0.1A-2.75A via SimpleSet (Factory Default at 2.3A)
- Additional SimpleSet Configurable Features: Adjustable Min Dim level, Adjustable Lumen Output, Adjustable Lumen Output Min, OEM Write Protection

Environment & Approbation
- Operating Ambient Temp. Range: -40°C to +55°C
- Max Case Temperature (Tcase): 90°C
- Agency Approbations: UL8750, UL1310, CSA, UL Class P
- Electromagnetic Compliance: FCC Title 47 Part 15 Class A
- Audible Noise: <24dB Class A
- Weight: 2.1 Lbs / 0.95 kgs

1. Philips Advance Xitanium LED Drivers are manufactured to engineering standards correlating to a designed and average life expectancy of 50,000 hours of operation at maximum rated case temperature. Minimum 90% survivals based on MTTF modeling.
Xitanium 95W 0.1-2.75A 0-10V Dimming with SimpleSet

Electrical Specifications
All the specifications are typical and at 25°C Tcase unless specified otherwise.

0-10V Dimming Curve
Dimming source current from the driver: 150μA (@ 0<Vdim<8V)
Minimum dim level: Factory default 10% of Iout setting as default
Maximum output voltage on the dimming wires: 12V

Approved Dimmer List

<table>
<thead>
<tr>
<th>Manufacturer</th>
<th>Manufacturer Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lutron</td>
<td>Visit <a href="http://www.lutron.com/">www.lutron.com/</a> advance for a list of dimmers (Mark VII) that will work with this driver</td>
</tr>
<tr>
<td>Leviton</td>
<td>IllumaTech IP7 series</td>
</tr>
<tr>
<td>Philips</td>
<td>Sunrise – SR1200ZTUNV</td>
</tr>
</tbody>
</table>

![Dimming Curve Graph]
Xitanium 95W 0.1-2.75A 0-10V Dimming with SimpleSet

Electrical Specifications
All the specifications are typical and at 25°C Tcase unless specified otherwise.

Driver Output Window

Notes
1. Factory default output current is 2.3A.
2. To get a 100% to 10% dimming range, the output current setting through AOC should be ≥300mA.
3. Factory default setting for the dimming range is 100% to 10%. However, the minimum dim level can be set between 5% and 100% through MultiOne and SimpleSet.
Electrical Specifications
All the specifications are typical and at 25°C Tcase unless specified otherwise.

Output Current Vs. Driver Case Temperature

Note
There is ±5°C tolerance on the driver case temperature.

Driver Lifetime vs. Driver Case Temperature
Performance Characteristics
Based on measurements on a typical sample at 75°C case. The accuracy of the measurements is within the tolerance of the measurement instruments.

Efficiency Vs. Output Voltage at 347Vac

Efficiency Vs. Output Voltage at 480Vac
Performance Characteristics

Based on measurements on a typical sample at 75°C case. The accuracy of the measurements is within the tolerance of the measurement instruments.

Power Factor Vs. Output Power

Total Harmonic Distortion (THD) Vs. Output Power
Inrush Current Info

<table>
<thead>
<tr>
<th>Vin</th>
<th>Ipeak</th>
<th>T (@ 10% of Ipeak)</th>
</tr>
</thead>
<tbody>
<tr>
<td>347 Vrms</td>
<td>471A</td>
<td>200μS</td>
</tr>
<tr>
<td>480 Vrms</td>
<td>64.4A</td>
<td>193μS</td>
</tr>
</tbody>
</table>

Inrush current is measured at peak of the corresponding line voltage. Source impedance per NEMA 410.

Lightning Surge Info

<table>
<thead>
<tr>
<th>ANSI Surge Type</th>
<th>Differential Mode (L-N)</th>
<th>Common Mode (L-G, N-G, L&amp;N-G)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.2/50μs Combination Wave (w/t 2Ω)</td>
<td>6kV</td>
<td>6kV</td>
</tr>
</tbody>
</table>

Isolation

<table>
<thead>
<tr>
<th>Isolation</th>
<th>Input</th>
<th>Output</th>
<th>0-10V</th>
<th>Enclosure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Input</td>
<td>NA</td>
<td>2xU+1kV</td>
<td>2.5kV</td>
<td>2xU+1kV</td>
</tr>
<tr>
<td>Output</td>
<td>2xU+1kV</td>
<td>NA</td>
<td>2.5kV</td>
<td>500V</td>
</tr>
<tr>
<td>0-10V</td>
<td>2.5kV</td>
<td>NA</td>
<td>2.5kV</td>
<td>2.5kV</td>
</tr>
<tr>
<td>Enclosure</td>
<td>2xU+1kV</td>
<td>500V</td>
<td>2.5kV</td>
<td>NA</td>
</tr>
</tbody>
</table>

U = Max input voltage

Inrush current is measured at peak of the corresponding line voltage. Source impedance per NEMA 410.