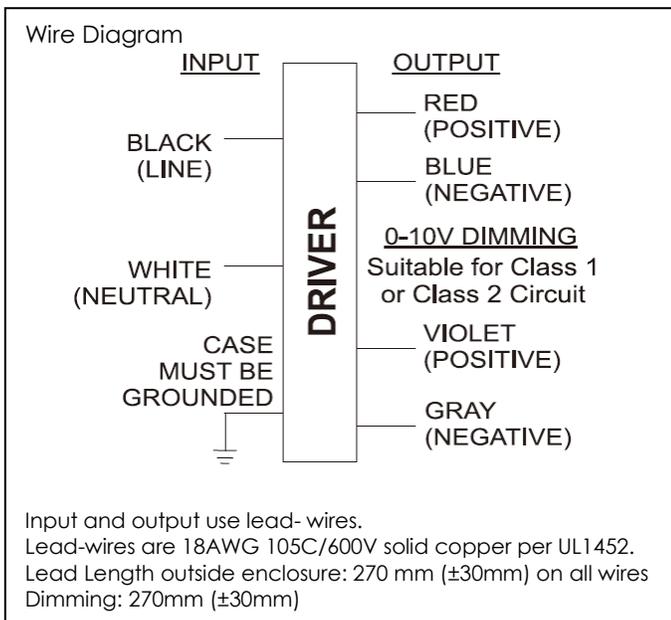


## Product Overview

| XI150C105V140CNF1M |                                   |
|--------------------|-----------------------------------|
| Brand Name         | XITANIUM                          |
| Description        | XITANIUM 150W 1.05A 0-10V Dimming |
| Input Voltage      | 120~277V                          |
| Input Frequency    | 50/60Hz                           |
| RoHS               | Yes                               |
| Approbations       | UL, CSA                           |
| Status             | Released                          |

| Input Voltage (Vac) | Output Power (W) | Output Voltage (V) | Output Current (A) | Efficiency @ Max Load | Max Case Temp. (°C) | Input Current (Arms) | Max. Input Power (W) | Inrush Current (A <sub>pk</sub> /50%-μs) | THD @ Max Load (%) | Power Factor @ Max Load | Surge Protection Common/Diff (KV) | Weight (kg) | Envir. Protection Rating |
|---------------------|------------------|--------------------|--------------------|-----------------------|---------------------|----------------------|----------------------|--|--------------------|-------------------------|-----------------------------------|-------------|--------------------------|
| 120                 | 150              | 44-140             | 1.05               | 90.7                  | 80                  | 1.4                  | 169                  | 70.3/136                                 | <10                | >0.95                   | 3/3                               | 2.1/0.95    | UL dry & Damp            |
| 277                 |                  |                    |                    | 92.8                  |                     | 0.6                  |                      | 166/131.5                                | <10                |                         |                                   |             |                          |



| Dimming      | Dimming Range | Minimum Output Current (A) | Other Comments                       |
|--------------|---------------|----------------------------|--------------------------------------|
| 0-10V Analog | 10% ~ 100%    | 0.105                      | Dimming source current: 150 μA (±3%) |

## Enclosure



|                 | In. (mm)    |
|-----------------|-------------|
| Case Length     | 8.38(211.1) |
| Case Width      | 2.35(59.1)  |
| Case Height     | 1.49(37.6)  |
| Mounting Length | 9.0(226.2)  |
| Mounting Width  | 1.7(42.9)   |
| Overall Length  | 9.54(240.5) |



Revised 10/08/2014

**PHILIPS LIGHTING ELECTRONICS N.A.**  
 10275 WEST HIGGINS ROAD · ROSEMONT, IL 60018  
 Tel: 800-322-2086 · Fax: 888-423-1882 · www.philips.com/advance  
 Customer Support/Technical Service: 800-372-3331 · OEM Support: 866-915-5886



## XI150C105V140CNF1M

|                 |                                   |
|-----------------|-----------------------------------|
| Brand Name      | XITANIUM                          |
| Description     | XITANIUM 150W 1.05A 0-10V Dimming |
| Input Voltage   | 120~277V                          |
| Input Frequency | 50/60Hz                           |
| RoHS            | Yes                               |
| Approbations    | UL, CSA                           |
| Status          | Released                          |

### Electrical Specifications

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

|  |  |
|--|--|
| 12NC   | 929000722913   |
| Order code   | XI150C105V140CNF1  |
| Full product code  | XI150C105V140CNF1M   |
| Full product name  | XITANIUM 150W 1.05A 0-10V Dimming  |
| Line Voltage   | 120-277Vac rms   |
| Line Current   | 1.4A @ 120Vac, 0.6 @ 277Vac, 0.67A @ 250Vdc  |
| Line Frequency   | 50/60Hz  |
| Mains voltage operational safety (AC)                      | 99-305V  |
| Mains voltage operational performance (AC)                 | 108-305V   |
| THD (total)  | Refer to graph   |
| Power Factor (PF)  | Refer to graph   |
| Efficiency   | Refer to graph   |
| Inrush Current   | Per NEMA 410   |
| Input Over-voltage   | Can survive input over-voltage stress of 320VAC for 48 hours and 350VAC for 2 hours                                    |
| Lightning Surge Protection                                 | Per IEEE C62.41.2 2002 (3KV, 1.2/50 $\mu$ s/20 $\mu$ s Combination Wave with 2 Ohms source impedance, L-N, L-PE, N-PE) |
| Output voltage range                                       | 44Vdc to 140Vdc  |
| Maximum open circuit voltage                               | 220Vdc   |
| Output Current Ripple<br>(ripple = peak to peak / average) | 30% max @ max Iout and max Vout<br>Low frequency ( $\leq$ 120 Hz) content < 5%   |
| Protections  | Short Circuit and Open Circuit Protection for LED + and LED-   |
| Operating Ambient Temp. Range                              | -40°C to +55°C   |
| Max Case Temperature (Tcase)                               | 80°C   |
| Encapsulation  | Yes, Fully potted  |
| Interfaces   | 0-10V Dimming  |
| 0-10V Dimming Specifications                               | 150 $\mu$ A $\pm$ 3% source current from driver. See dim curve for detail.   |
| Environmental Protection Rating                            | UL dry and damp  |
| Life @ Tcase 70C   | refer to graph below   |
| Life @ Tcase 80°C  | refer to graph below   |
| Agency Approbations  | UL8750, CSA250.13  |
| Electromagnetic Compliance                                 | FCC Title 47 Part 15 Class A   |
| Isolation  | Refer to table   |

Revised 10/08/2014

### PHILIPS LIGHTING ELECTRONICS N.A.

10275 WEST HIGGINS ROAD · ROSEMONT, IL 60018  
Tel: 800-322-2086 · Fax: 888-423-1882 · [www.philips.com/advance](http://www.philips.com/advance)  
Customer Support/Technical Service: 800-372-3331 · OEM Support: 866-915-5886

## Electrical Specifications

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

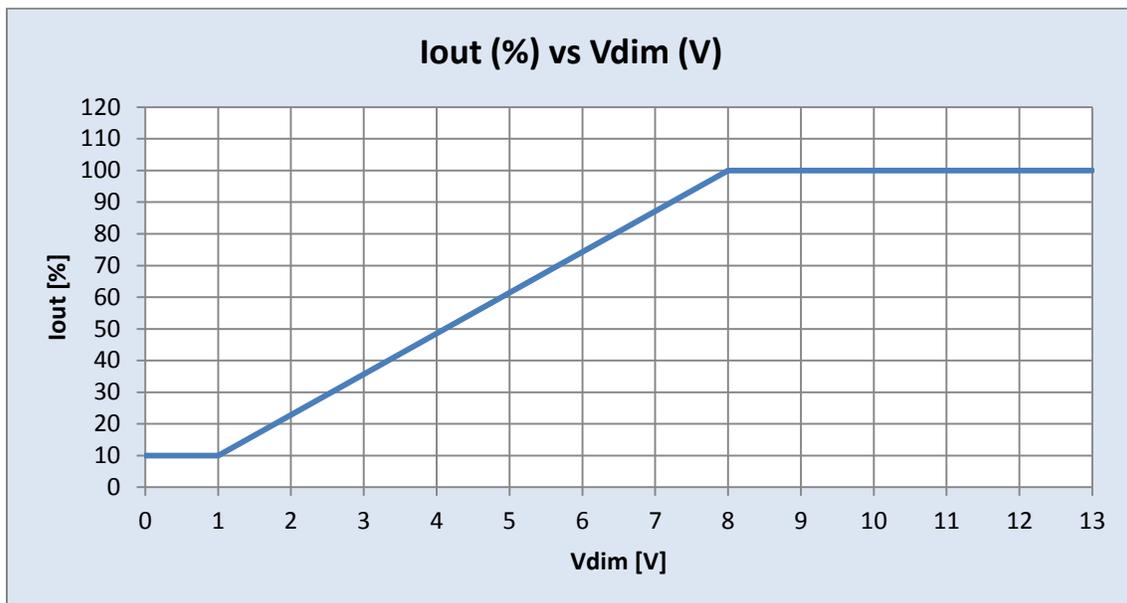
| XI150C105V140CNF1M |                                   |
|--------------------|-----------------------------------|
| Brand Name         | XITANIUM                          |
| Description        | XITANIUM 150W 1.05A 0-10V Dimming |
| Input Voltage      | 120~277V                          |
| Input Frequency    | 50/60Hz                           |
| RoHS               | Yes                               |
| Approbations       | UL, CSA                           |
| Status             | Released                          |

## 0-10V Dimming Curve:

Dimming source current from the driver: 150 $\mu$ A ( $\pm$ 3%) (@ 0<Vdim<8V)

LED Current Tolerance at 1050mA  $\leq$  5% over temperature and component variations and  $\leq$  10% at any dim level.

Minimum Dim Level (nominal): 105 mA



## Approved Dimmer List

Revised 10/08/2014

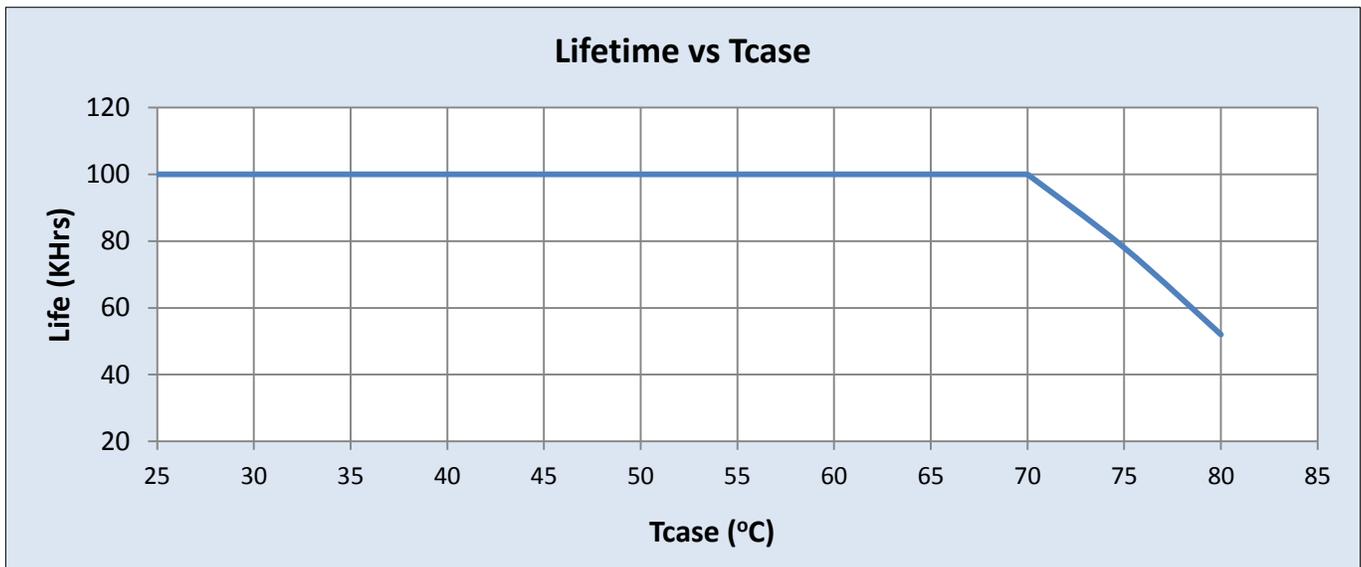


| <b>XI150C105V140CNF1M</b> |                                   |
|---------------------------|-----------------------------------|
| Brand Name                | XITANIUM                          |
| Description               | XITANIUM 150W 1.05A 0-10V Dimming |
| Input Voltage             | 120~277V                          |
| Input Frequency           | 50/60Hz                           |
| RoHS                      | Yes                               |
| Approbations              | UL, CSA                           |
| Status                    | Released                          |

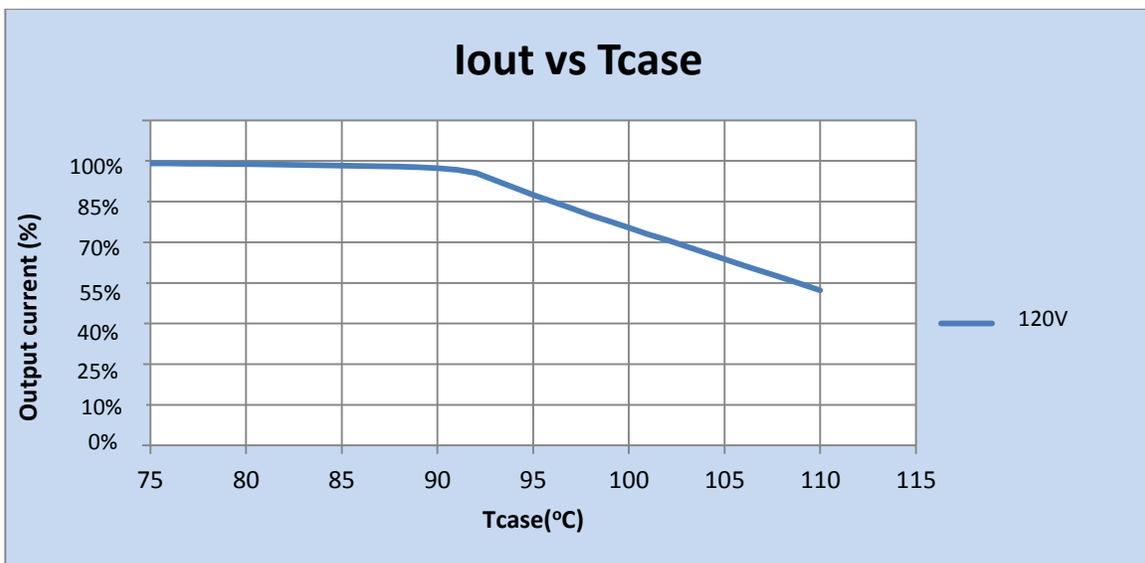
### Electrical Specifications

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

### Lifetime vs. Tcase of Driver



### Iout vs Tcase of Driver



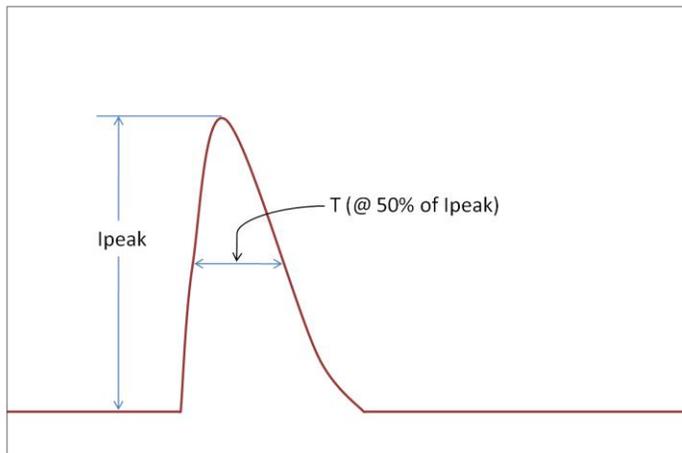
Revised 10/08/2014

## Electrical Specifications

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

| <b>XI150C105V140CNF1M</b> |                                   |
|---------------------------|-----------------------------------|
| Brand Name                | XITANIUM                          |
| Description               | XITANIUM 150W 1.05A 0-10V Dimming |
| Input Voltage             | 120~277V                          |
| Input Frequency           | 50/60Hz                           |
| RoHS                      | Yes                               |
| Approbations              | UL, CSA                           |
| Status                    | Released                          |

### Inrush Current Info:



| <b>Vin</b>     | <b>Ipeak</b> | <b>T (@ 50% of Ipeak)</b> |
|----------------|--------------|---------------------------|
| <b>120 Vac</b> | <b>70A</b>   | <b>136us</b>              |
| <b>277 Vac</b> | <b>149A</b>  | <b>124us</b>              |

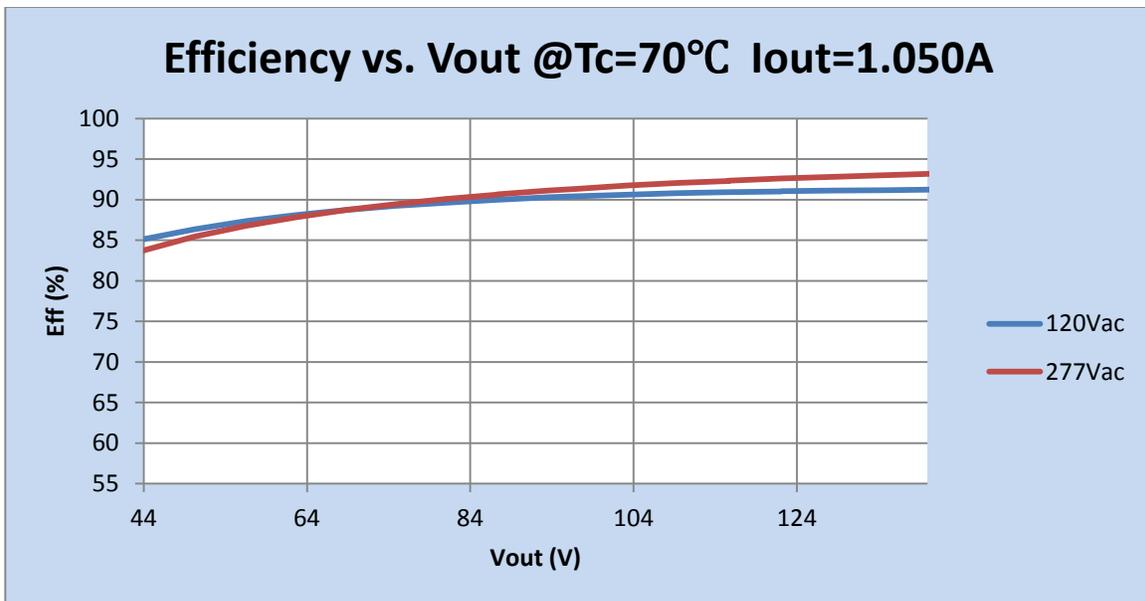
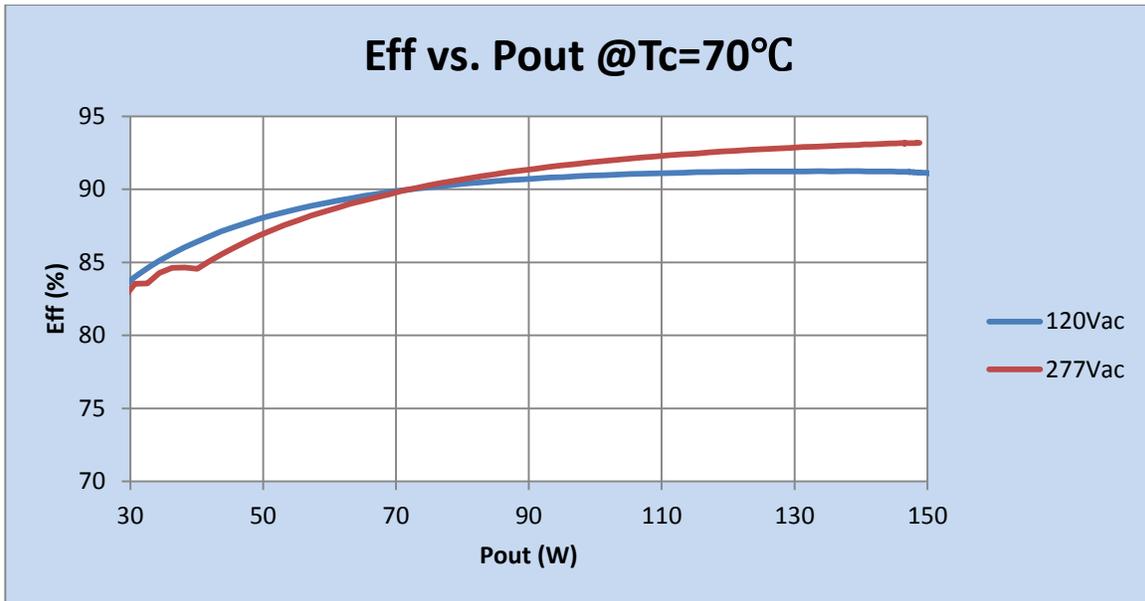
Inrush current is measured at peak of the corresponding line voltage, source impedance per NEMA 410.



| <b>XI150C105V140CNF1M</b> |                                   |
|---------------------------|-----------------------------------|
| Brand Name                | XITANIUM                          |
| Description               | XITANIUM 150W 1.05A 0-10V Dimming |
| Input Voltage             | 120~277V                          |
| Input Frequency           | 50/60Hz                           |
| RoHS                      | Yes                               |
| Approbations              | UL, CSA                           |
| Status                    | Released                          |

### Electrical Specifications

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



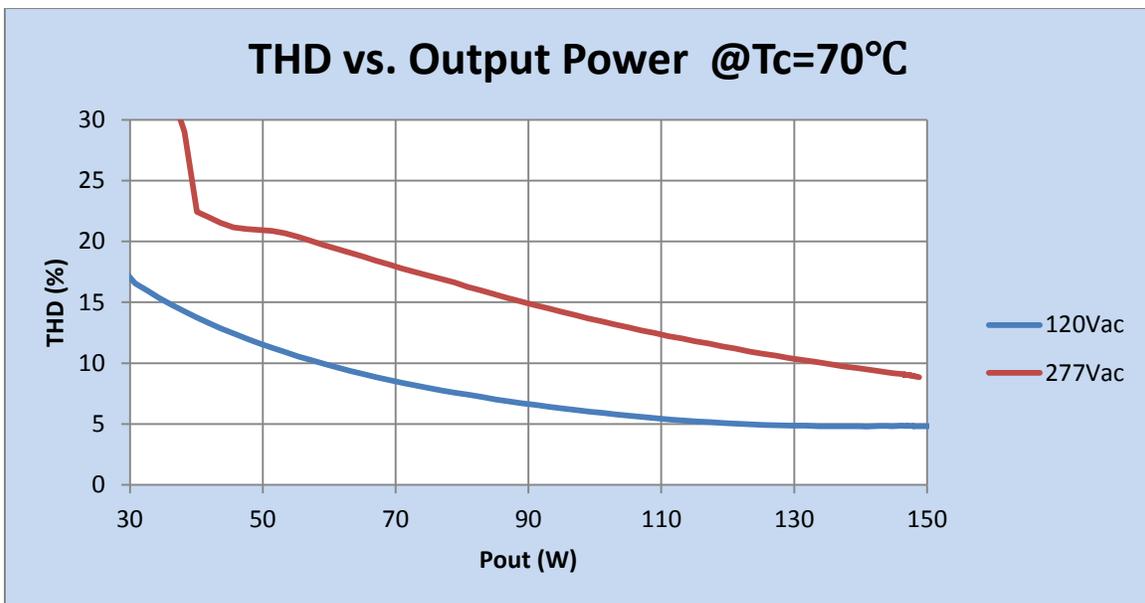
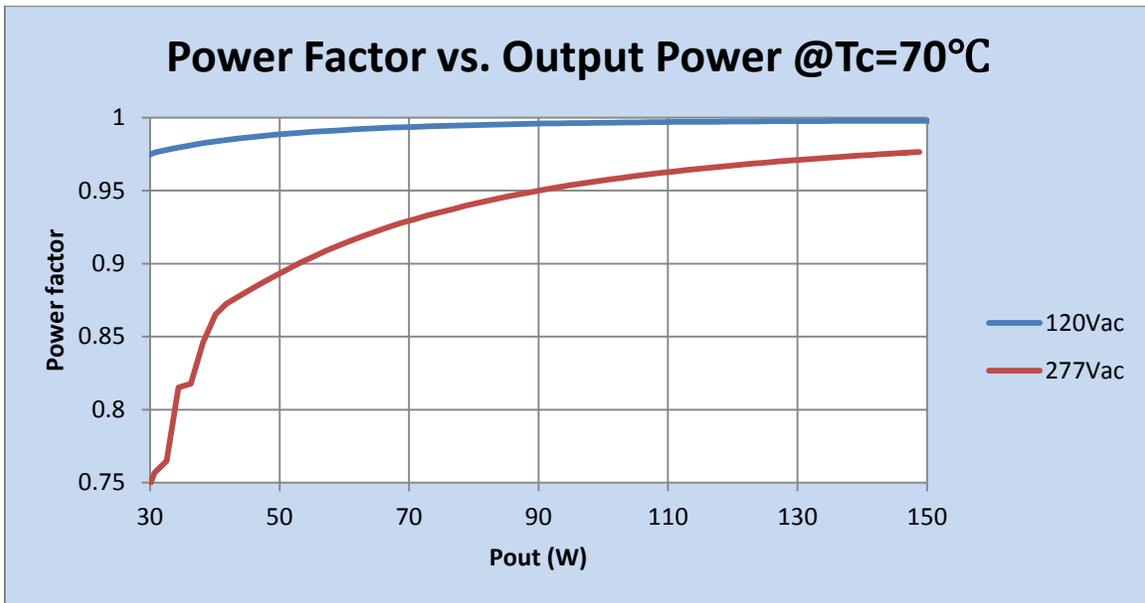
Revised 10/08/2014



| <b>XI150C105V140CNF1M</b> |                                   |
|---------------------------|-----------------------------------|
| Brand Name                | XITANIUM                          |
| Description               | XITANIUM 150W 1.05A 0-10V Dimming |
| Input Voltage             | 120~277V                          |
| Input Frequency           | 50/60Hz                           |
| RoHS                      | Yes                               |
| Approbations              | UL, CSA                           |
| Status                    | Released                          |

### Electrical Specifications

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



Revised 10/08/2014



## XI150C105V140CNF1M

|                 |                                   |
|-----------------|-----------------------------------|
| Brand Name      | XITANIUM                          |
| Description     | XITANIUM 150W 1.05A 0-10V Dimming |
| Input Voltage   | 120~277V                          |
| Input Frequency | 50/60Hz                           |
| RoHS            | Yes                               |
| Approbations    | UL, CSA                           |
| Status          | Released                          |

### Electrical Specifications

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

#### Isolation:

| Isolation           | Input          | Output         | 0-10V (Class 1 & 2) | Enclosure      |
|---------------------|----------------|----------------|---------------------|----------------|
| Input               | Not Applicable | 2xU+1kV        | 2.5KVac             | 2xU+1kV        |
| Output              | 2xU+1kV        | Not Applicable | 2.5KVac             | 2xU+1kV        |
| 0-10V (Class 1 & 2) | 2.5KVac        | 2.5KVac        | Not Applicable      | 2xU+1kV        |
| Enclosure           | 2xU+1kV        | 2xU+1kV        | 2xU+1kV             | Not Applicable |

#### Lighting Surge Info:

| ANSI Surge Type                    | Differential Mode (L-N) | Common Mode (L-G, N-G, L&N-G) |
|------------------------------------|-------------------------|-------------------------------|
| 100 kHz Ring Wave (w/t 30Ω)        | N/A                     | N/A                           |
| 1.2/50μs Combination Wave (w/t 2Ω) | 3kV                     | 3kV                           |

Revised 10/08/2014

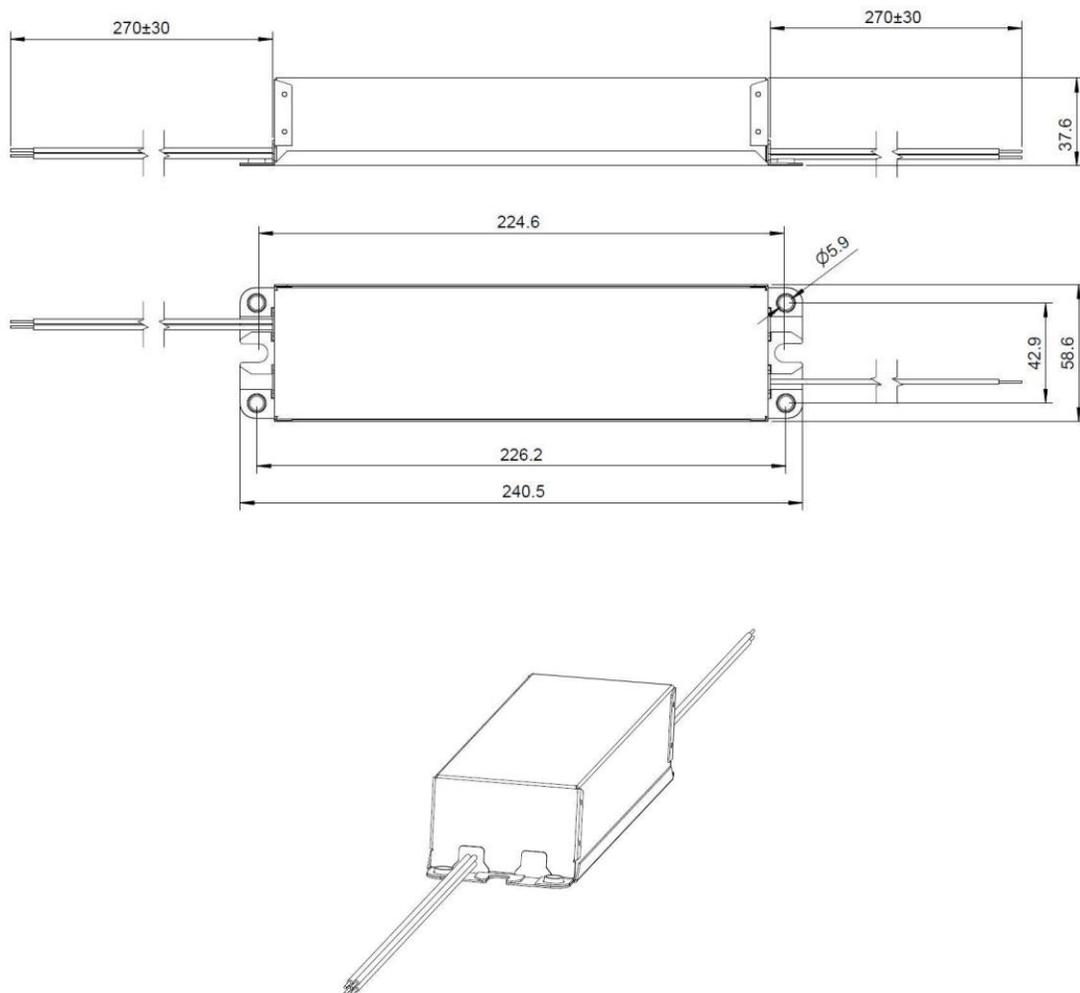
### PHILIPS LIGHTING ELECTRONICS N.A.

10275 WEST HIGGINS ROAD · ROSEMONT, IL 60018  
Tel: 800-322-2086 · Fax: 888-423-1882 · [www.philips.com/advance](http://www.philips.com/advance)  
Customer Support/Technical Service: 800-372-3331 · OEM Support: 866-915-5886

## Mechanical Specifications

| <b>XI150C105V140CNF1M</b> |                                   |
|---------------------------|-----------------------------------|
| Brand Name                | XITANIUM                          |
| Description               | XITANIUM 150W 1.05A 0-10V Dimming |
| Input Voltage             | 120~277V                          |
| Input Frequency           | 50/60Hz                           |
| RoHS                      | Yes                               |
| Approbations              | UL, CSA                           |
| Status                    | Preliminary                       |

## Mechanical drawing:



Revised 10/08/2014