PHILIPS

Xitanium

LED Driver


Datasheet

# Xitanium 150W 1.05A 230V Y

LED-based light sources are an excellent solution for outdoor environment. They are long-lasting and require low maintenance. However, to get the best out of the LEDs, these light sources require highly reliable and efficient LED Drivers. The new Philips Xitanium Fixed Output and Dimmable (1-10V) LED Outdoor Drivers are specifically designed to deliver reliable performance and protection while meeting the strict performance, approbation and application requirements.

## Benefits

**Reliability**

- Robust design; capable of withstanding harsh outdoor conditions.
- Long lifetime and high survival rate.
- Superior thermal management suitable for outdoor application.
- Backed by 5 year warranty from a company you can trust.

**Affordable**

- Component integration in advanced IC enables cost effective design.
- Proven robustness & reliability secure the lowest luminaire maintenance over time.

**Easy to use**

- Extreme compact size. fitting with varied luminaires.
- Easy to design-in based on the good thermal management and extra EMI margin

## Features

- Proven robustness and reliable electronic driver design.
- Achieving highest efficiencies based on advance technology.
- Long lifetime; 50k hrs @Tc max.
- Extreme compact size, fitting with varied and critical luminaires.
- Suitable for Class I isolated luminaires.
- Authorized certificate: ENEC, CB, CE and CCC.

## Applications

- Road and street lighting
- Area and flood lighting
- Tunnel lighting
- High-bay

## Electrical Input Data

| Specification item | Value | Unit | Condition |
|---|---|---|---|
| Nominal Input Voltage | 220…240 | Vac | |
| Input Voltage AC | 202…254 | Vac | Performance range |
| Nominal Input Frequency | 50…60 | Hz | |
| Input Frequency AC | 47…63 | Hz | Maximum permissible range |
| Nominal Input Current | 0.77…0.71 | A | 220V…240V at full load |
| Maximum Input Current | 0.83 | A | At 202V |
| Nominal Input Power | 168 | W | At 230V at full load |
| Power Factor | ≥0.95 | | At 230V at full load |
| Total Harmonic Distortion | ≤10 | % | At 230V at full load |
| Efficiency | 92 | % | At 230V at full load |

## Electrical Output Data

| Specification item | Value | Unit | Condition |
|---|---|---|---|
| Regulation Method | Constant Current | | |
| Output Voltage | 62…142 | Vdc | |
| Output Voltage Max | 220 | Vdc | Peak voltage at open circuit |
| Output Current | 1050 | mA | Performance range |
| Output Current Tolerance | ±5 | % | At max. output current |
| Output Current Ripple LF | 5 | % | Ripple = peak / average, at<1kHz |
| Output Power | 150 | W | At full load |
| Galvanic Isolation | Yes | | Basic; 2U+1000V |

## Electrical Data Control Input

| Specification item | Value | Unit | Condition |
|---|---|---|---|
| Control Method | N/A | V | |
| Digital Interface | N/A | | According 2.0 specifications |
| Mains Control | N/A | | Can be configured via MultiOne |
| Time-based Integrated Control | N/A | | Can be configured via MultiOne |
| Dimming Range | N/A | % | |

## Wiring & Connections

| Specification item | Value | Unit | Condition |
|---|---|---|---|
| Input Wire Size | 0.75 | mm² | 2-wire AWG18 ; 600V/105C rating or higher |
| Output Wire Size | 0.75 | mm² | 2-wire AWG18; 600V/105C rating or higher |
| Input & Output Wire Length | 270 ±30 | mm | Out of enclosure |
| Control Wire Size | N/A | mm | N/A |
| Control Wire Length | N/A | mm | |

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