

# [Ibérica de Iluminación]

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## CAMPANA ETNA PHILIPS XITANIUM



IK09



IP65

6 AÑOS GARANTIA

1-10V

DISPONIBLE EN  
200W

### INFORMACIÓN DEL PRODUCTO

La nueva luminaria LED PHILIPS XITANIUM es una combinación excepcional de calidad y rendimiento. La gama de esta campana se ha actualizado para alcanzar una eficacia mucho más alta, teniendo 200lm/w y teniendo cubierto un rango de 34.000 lúmenes. Esta campana se puede regular mediante los controladores 1-10V y opcional Dali. A demás de ser IP65. Esta campana es ideal para la sustitución de luminarias de Halogenuro, vapor de sodio, etc.

### APLICACIÓN

- Esta campana se puede utilizar en distintas áreas; ya que al ser IP65 se puede colocar tanto en interior como en exterior.
- Naves industriales, centros logísticos, hangares.

### MONTAJE

- Montaje con cable o soporte.

### HOUSING

- Esta campana está fabricada en Aluminio y PMMA.
- Tiene una protección IK09.
- Es IP65.
- Se puede regular por 1-10V y OPCIONAL Dali, añadiendo una pasarela Dali.
- Rango de temperatura: -40°C ~ +55°C.

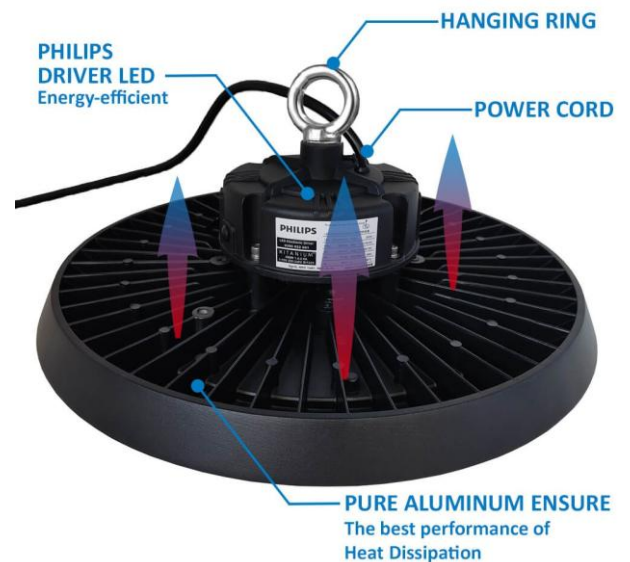


## MONTAJE ÓPTICO Y LED

- Un producto de alto rendimiento, que ofrece una confiabilidad excepcional.
- Versión **disponible en 4000k y 6000k** con un CRI de 70.
- Tiene un **ángulo de apertura de 90°**.
- Tiene una vida estimada de 50.000H.

## ELÉCTRICA

- 220-240V / 50-60Hz
- Factor de potencia: 0.99
- Clase energética C



## CAMPANA INDUSTRIAL PHILIPS XITANIUM

REFERENCIA: NEW-HBPHL200W

Potencia nominal: 200w

Tensión Nominal: 220-240V

Temperatura de Luz: 4000K-6000K

CRI -Índice Reproducción Cromática: 70

Material de Construcción: Aluminio + PMMA

Luminosidad-Lm: 34.000Lm

Tipo de LEDs: SMD 3030

Ángulo de Apertura (º): 90°

Eficacia Diodo LED (Lm/W): 200Lm/W

Eficacia luminosa (Lm/W): 170Lm/W

Dimmable: 1-10V

Certificados: CE - ROHS

Grado de IP: IP65-Exterior

Vida Estimada Diodo LED (H): 50.000

Medidas (mm): Ø360xH145mm

Factor de Potencia (PF): 0.99

Frecuencia de Trabajo (Hz): 50/60Hz

Rango Temperatura (°C): -40°C ~ +55°C

Ciclos de Encendidos: 100.000

Tiempo de Arranque (s): 0,2s

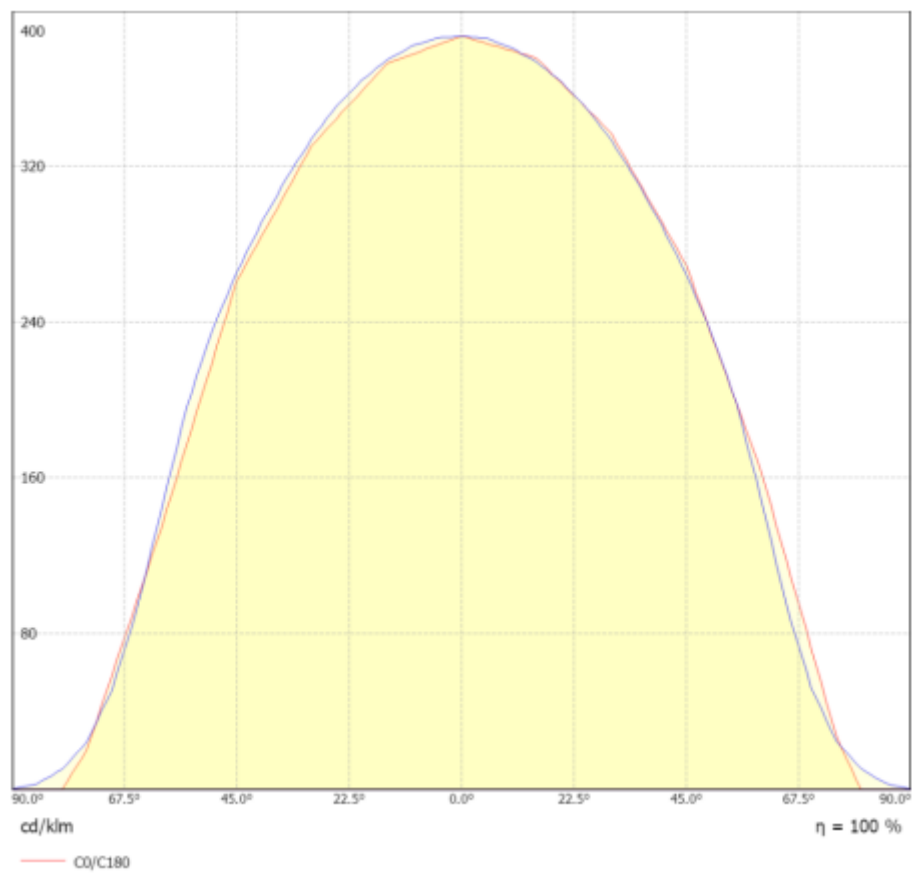
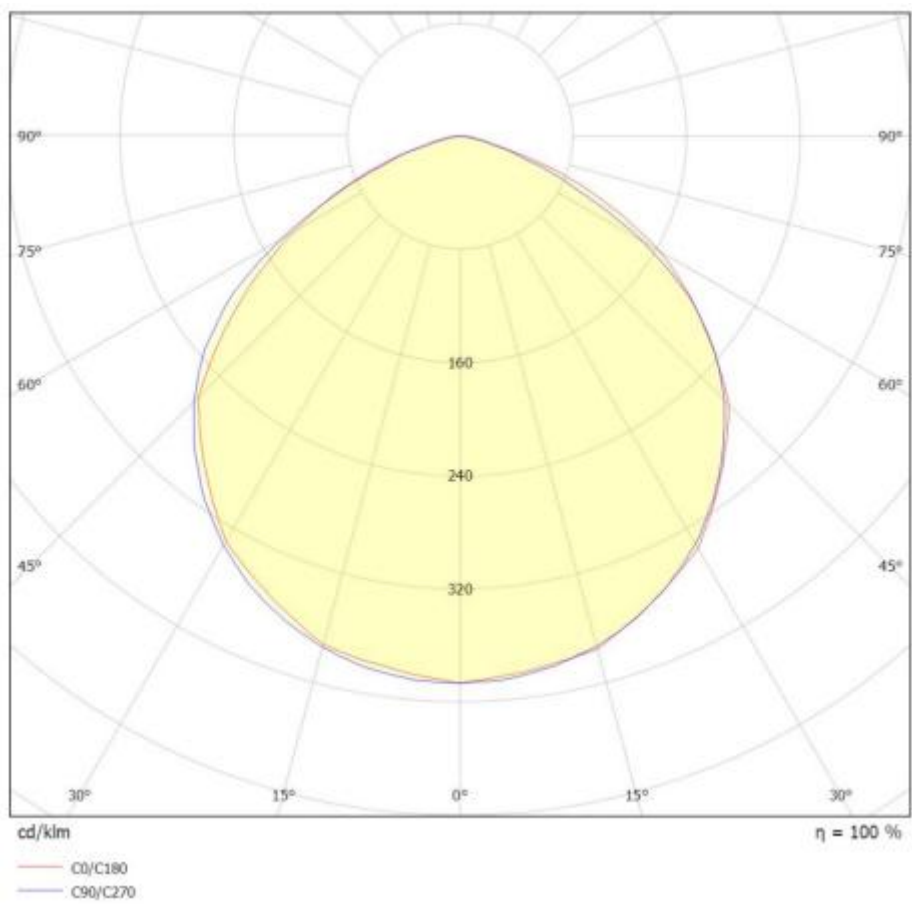
Protección impacto (IK): IK09

Driver incluido: DRIVER NO FLICK - SIN PARPADEO

Clase Energética: C

Garantía años: 6

FOTOMETRIAS



# PHILIPS

## Xitanium

### LED driver



## Datasheet

### Xitanium High Bay LED Drivers GL Independent

Xi 200W 0.66-1.10A 1-10V GL AUX RI132S

9290 028 25780

LED-based light sources are an excellent solution for highbay industrial applications.

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. Philips Xitanium Dimmable (1-10V) LED Outdoor Drivers are specifically designed to deliver reliable performance and protection while meeting the strict approbation and application requirements.

#### Benefits

- Able to reliably operate anywhere around the world
- Reliable and robust design, capable of withstanding the harsh industrial operating conditions
- Wide flexibility by adjusting light output and output current
- Option to power a sensor or control via AUX power supply
- Extremely long lifetime, fitting with high bay industrial applications
- Peace of mind. Backed by a 5-year warranty from a company you can trust

#### Features

- 100-277V (Global) versions
- Independent/IP65 rated
- Adjustable output current
- Dimmable through 1-10V interface
- Auxiliary Power Supply (12V, 200mA)
- High ambient temperature rating
- Approbations: CE, ENEC, CB, CCC, UL
- 50,000 hours lifetime

#### Application

- Highbay industrial lighting
- Warehouse lighting
- Big-box retail store lighting

## Electrical input data

| Specification item          | Value     | Unit            | Condition                                  |
|-----------------------------|-----------|-----------------|--------------------------------------------|
| Rated input voltage range   | 100...277 | V <sub>ac</sub> | Performance range                          |
| Rated input voltage         | 230       | V <sub>ac</sub> |                                            |
| Rated input frequency range | 50...60   | Hz              | Performance range                          |
| Rated input current         | 0.91      | A               | @ rated output power @ rated input voltage |
| Rated input power           | 209       | W               | @ rated output power @ rated input voltage |
| Power factor                | 0.95      |                 | @ rated output power @ rated input voltage |
| Total harmonic distortion   | 10        | %               | @ rated output power @ rated input voltage |
| Efficiency                  | 95.5      | %               | @ rated output power @ rated input voltage |
| Input voltage AC range      | 85...305  | V <sub>ac</sub> | Operational range                          |
| Input frequency AC range    | 47.5...63 | Hz              | Operational range                          |

## Electrical output data

| Specification item         | Value            | Unit            | Condition                       |
|----------------------------|------------------|-----------------|---------------------------------|
| Regulation method          | Constant Current |                 |                                 |
| Output voltage             | 160...260        | V <sub>dc</sub> |                                 |
| Output voltage max.        | 300              | V               | Maximum output voltage (rms)    |
| Output current             | 0.66...1.1       | A               |                                 |
| Output current min dimming | 66               | mA              |                                 |
| Output current tolerance   | ± 5              | %               |                                 |
| Output current ripple LF   | ≤ 5              | %               | Ripple = peak / average, < 3kHz |
| Output current ripple HF   | ≤ 5              | %               |                                 |
| Output power               | 10.6...200       | W               |                                 |

## Electrical data controls input

| Specification item                 | Value      | Unit | Condition                                             |
|------------------------------------|------------|------|-------------------------------------------------------|
| Control method                     | 1-10V      |      | Output current amplitude dimming, 1-10V acc. IEC60929 |
| Dimming range                      | 10...100   | %    | Default range                                         |
| Isolation controls input to output | Reinforced |      | acc. IEC61347-1                                       |

## Wiring and Connections

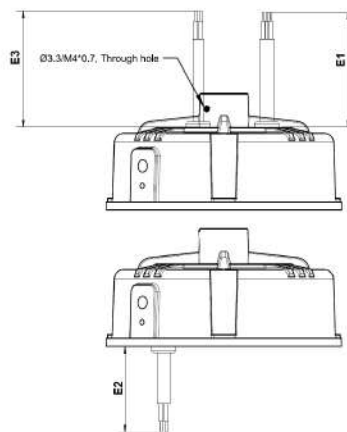
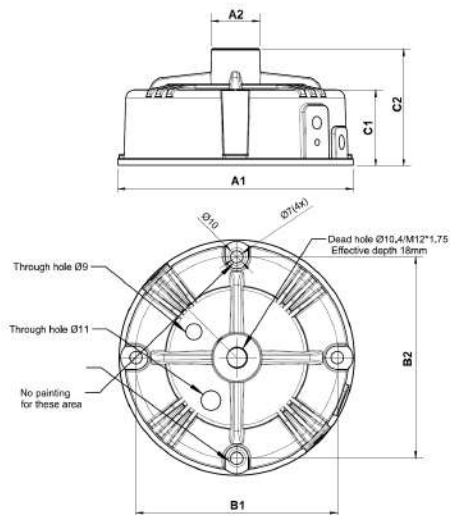
| Specification item         | Value     | Unit                  | Type                                                 |
|----------------------------|-----------|-----------------------|------------------------------------------------------|
| Input wire cross-section   | 1.04 / 17 | mm <sup>2</sup> / AWG | 3-wire cable, AWG17                                  |
| Output wire cross-section  | 1.04 / 17 | mm <sup>2</sup> / AWG | 2-wire cable, AWG17                                  |
| Control wire cross-section | 0.33 / 22 | mm <sup>2</sup> / AWG | 3-wire cable, AWG22                                  |
| Maximum cable length       | 2         | m                     | Total length of wiring including LED module, one way |

## Insulation

| Insulation per IEC61347-1 | Mains      | Output     | Dim & AUX  | Ground |
|---------------------------|------------|------------|------------|--------|
| Mains                     |            | Non        | Reinforced | Basic  |
| Output                    | Non        |            | Reinforced | Basic  |
| Dim & AUX                 | Reinforced | Reinforced |            | Basic  |
| Ground                    | Basic      | Basic      | Basic      |        |

## Dimensions and weight

| Specification item          | Value | Unit | Tolerance (mm) |
|-----------------------------|-------|------|----------------|
| Length (A1)                 | 132   | mm   |                |
| Mounting hole distance (A2) | 27    | mm   |                |
| Width (B1)                  | 113   | mm   |                |
| Width (B2)                  | 113   | mm   |                |
| Height (C1)                 | 43    | mm   |                |
| Height (C2)                 | 66    | mm   |                |
| Input cable length (E1)     | 300   | mm   |                |
| Output cable length (E2)    | 300   | mm   |                |
| Control cable length (E3)   | 300   | mm   |                |
| Weight                      | 1030  | gram |                |



## Logistical data

| Specification item | Value                                  |
|--------------------|----------------------------------------|
| Product name       | Xi 200W 0.66-1.10A 1-10V GL AUX RI132S |
| Logistic code 12NC | 9290 028 25780                         |
| Pieces per box     | 10                                     |

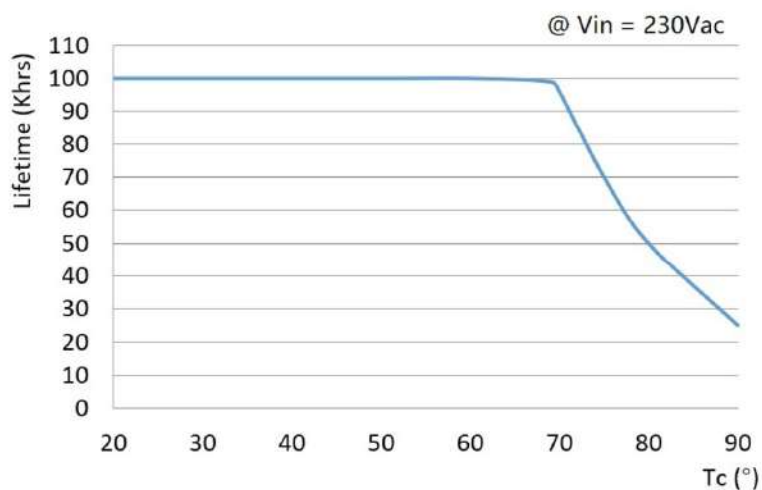
## Operational temperatures and humidity

| Specification item          | Value     | Unit | Condition                                                               |
|-----------------------------|-----------|------|-------------------------------------------------------------------------|
| Ambient temperature         | -40...+60 | °C   | Higher ambient temperature allowed as long as Tcase-max is not exceeded |
| Tcase-max                   | 80        | °C   | Maximum temperature measured at T <sub>case</sub> -point                |
| Tcase-life                  | 70        | °C   | Measured at T <sub>case</sub> -point                                    |
| Maximum housing temperature | 110       | °C   | In case of a failure, inherent by design                                |
| Relative humidity           | 10...90   | %    | Non-condensing                                                          |

\* Note: Tc max = 75°C, Tc life = 65°C @Vin<120Vac

## Lifetime

| Specification item | Value  | Unit  | Condition                                                                   |
|--------------------|--------|-------|-----------------------------------------------------------------------------|
| Driver lifetime    | 50,000 | hours | Measured temperature at Tcase-point is Tcase-max.<br>Maximum failures = 10% |



## Storage temperature and humidity

| Specification item  | Value     | Unit | Condition      |
|---------------------|-----------|------|----------------|
| Ambient temperature | -40...+85 | °C   |                |
| Relative humidity   | 5...95    | %    | Non-condensing |

## Programmable features

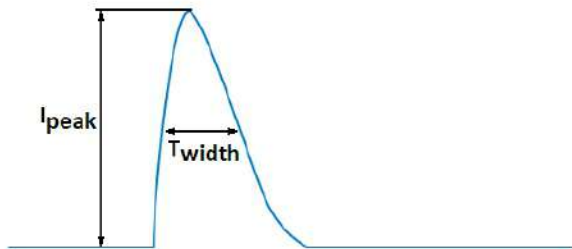
| Specification item                  | Available | Default setting | Condition |
|-------------------------------------|-----------|-----------------|-----------|
| Set Adjustable Output Current (AOC) |           | 769 mA          |           |

## Features

| Specification item                          | Value |  | Condition            |
|---------------------------------------------|-------|--|----------------------|
| Open load protection                        | Yes   |  | Automatic recovering |
| Short circuit protection                    | Yes   |  | Automatic recovering |
| Over power protection                       | Yes   |  | Automatic recovering |
| Hot wiring                                  | No    |  |                      |
| Suitable for fixtures with protection class | I     |  | per IEC60598         |
| Overtemperature protection                  | Yes   |  | Automatic recovering |
| Auxiliary Power Supply (Vaux)               | Yes   |  | 12Vdc, 200mA         |

## Inrush current

| Specification item         | Value    | Unit    | Condition                                      |
|----------------------------|----------|---------|------------------------------------------------|
| Inrush current $I_{peak}$  | 56       | A       | Input voltage 230V                             |
| Inrush current $T_{width}$ | 326      | $\mu s$ | Input voltage 230V, measured at 50% $I_{peak}$ |
| Drivers / MCB 16A type B   | $\leq 5$ | pcs     | Indicative value                               |



| MCB | Rating | Relative number of LED drivers |
|-----|--------|--------------------------------|
| B   | 4A     | 25%                            |
| B   | 6A     | 40%                            |
| B   | 10A    | 63%                            |
| B   | 13A    | 81%                            |
| B   | 16A    | 100% (stated in datasheet)     |
| B   | 20A    | 125%                           |
| B   | 25A    | 156%                           |
| B   | 32A    | 200%                           |
| B   | 40A    | 250%                           |
| C   | 4A     | 42%                            |
| C   | 6A     | 63%                            |
| C   | 10A    | 104%                           |
| C   | 13A    | 135%                           |
| C   | 16A    | 170%                           |
| C   | 20A    | 208%                           |
| C   | 25A    | 260%                           |
| C   | 32A    | 340%                           |
| C   | 40A    | 415%                           |

## Driver touch current / protective conductor current

| Specification item                                  | Value | Unit   | Condition                                             |
|-----------------------------------------------------|-------|--------|-------------------------------------------------------|
| Typical Protective Conductor Current (ins. Class I) | 2     | mA rms | Acc. IEC60598-1. LED module contribution not included |

## Surge immunity

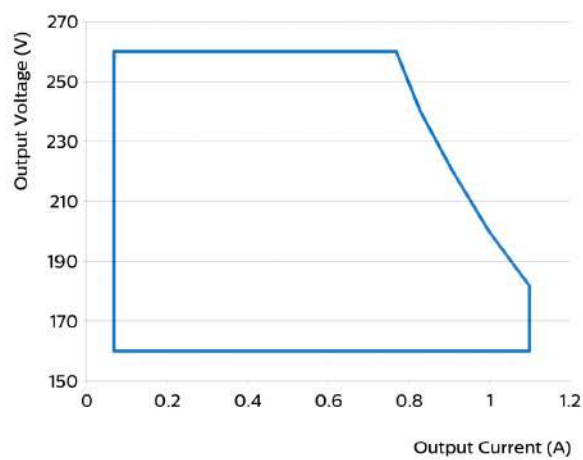
| Specification item                | Value | Unit | Condition                                   |
|-----------------------------------|-------|------|---------------------------------------------|
| Mains surge immunity (diff. mode) | 6     | kV   | Acc. IEC61000-4-5. 2 Ohm, 1.2/50us, 8/20us  |
| Mains surge immunity (comm. mode) | 6     | kV   | Acc. IEC61000-4-5. 12 Ohm, 1.2/50us, 8/20us |

## Application Info

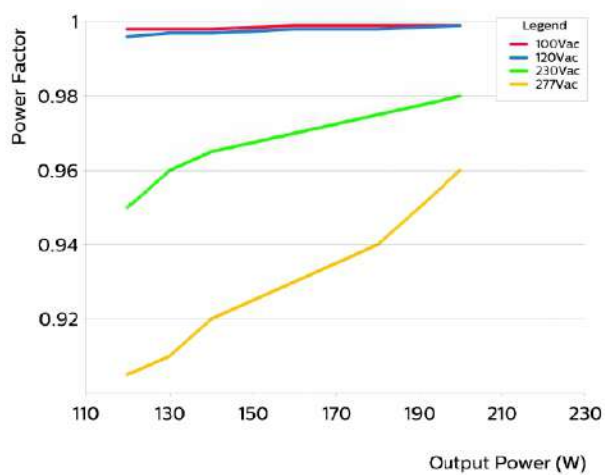
| Specification item                     | Value                           |
|----------------------------------------|---------------------------------|
| Approval marks                         | CB / CCC / CE / ENEC / RCM / RU |
| Ingress Protection classification (IP) | 65                              |

## Graphs

### Operating window



### Power factor versus output power



# CERTIFICATE

Issued to:  
Applicant:  
**Philips Lighting B.V.**  
**High Tech Campus 45**  
**5656 AE Eindhoven The Netherlands**

Manufacturer/Licensee:  
**Philips Lighting B.V.**  
**High Tech Campus 45**  
**5656 AE Eindhoven The Netherlands**

Product(s) : Electronic LED drivers  
Trade name(s) : PHILIPS  
Type(s)/model(s) : Xitanium 100W 2.1-4.2A AOC 230V I220  
Xitanium 150W 2.45-4.9A AOC 230V I220

The product and any acceptable variation thereto is specified in the Annex to this certificate and the documents therein referred to.

DEKRA hereby declares that the above-mentioned product has been certified on the basis of:

- a type test according to the standard EN 61347-1:2008 + A1:2011 + A2:2013; EN 61347-2-13:2014; EN 62384:2006 + A1:2009; EN 60598-1:2015;
- an inspection of the production location according to CENELEC Operational Document CIG 021
- a certification agreement with the number 947556

DEKRA hereby grants the right to use the ENEC KEMA-KEUR certification mark.

The ENEC KEMA-KEUR certification mark may be applied to the product as specified in this certificate for the duration of the ENEC KEMA-KEUR certification agreement and under the conditions of the ENEC KEMA-KEUR certification agreement.

This certificate is issued on: 14 February 2017 and expires upon withdrawal of one of the above mentioned standards.

Certificate number: 6002824.01

DEKRA Certification B.V.

  
drs. G.J. Zoetbrood  
Managing Director

  
T. Drost  
Certification Manager

© Integral publication of this certificate is allowed

ACCREDITED BY THE  
DUTCH ACCREDITATION  
COUNCIL



**SPECIFICATION OF THE CERTIFIED PRODUCT****Product data**

|                                 |                                                                                 |
|---------------------------------|---------------------------------------------------------------------------------|
| product                         | : Electronic LED drivers                                                        |
| trade name                      | : PHILIPS                                                                       |
| types                           | : Xitanium 100W 2.1-4.2A AOC 230V I220<br>Xitanium 150W 2.45-4.9A AOC 230V I220 |
| rated voltage                   | : 220-240 V                                                                     |
| nature of supply                | : ac                                                                            |
| rated frequency                 | : 50/60 Hz                                                                      |
| power factor                    | : 0,95                                                                          |
| input current                   | : see product data per type                                                     |
| output current                  | : see product data per type                                                     |
| output voltage                  | : see product data per type                                                     |
| Uout (max open circuit)         | : S=see product data per type                                                   |
| max. case temperature (tc)      | : 80 °C                                                                         |
| ambient temperature ranges (ta) | : -40...+55 °C                                                                  |
| degree of protection            | : IP65                                                                          |
| description                     | : Independent LED driver with SELV output circuit                               |

**Additional information**

- Constant current type
- The LED driver is completely potted
- The LED driver is SELV

**Product data - type Xitanium 100W 2.1-4.2A AOC 230V I220**

|                         |                 |
|-------------------------|-----------------|
| input current           | : 0,53-0,49 Aac |
| output current          | : 2,1-4,2 Adc   |
| output voltage          | : 48 -13 Vdc    |
| Uout (max open circuit) | : 70 Vdc        |

**Product data - type Xitanium 150W 2.45-4.9A AOC 230V I220**

|                         |                 |
|-------------------------|-----------------|
| input current           | : 0,76-0,68 Aac |
| output current          | : 2,45-4,9 Adc  |
| output voltage          | : 61 -15 Vdc    |
| Uout (max open circuit) | : 75 Vdc        |

**TESTS****Test requirements**

EN 61347-1:2008 + A1:2011 +A2:2013  
EN 61347-2-13:2014  
EN 62384:2006 + A1:2009  
EN 60598-1:2015

**Test result**

The test results are laid down in DEKRA test file 6002824.00

**Remarks**

- For component list refers to annex 1 of test reports 6002824.50.
- This certificate supersedes the original certificate 2198412.01, dated 2016-11-28 which is herewith declared invalid.

**Conclusion**

The examination proved that all test requirements were met.

The tests were performed by the manufacturer under the conditions of the agreement concerning the manufacturer's right to conduct type tests for the KEMA-KEUR / ENEC certification system under supervision of DEKRA (CTF Stage 3).

Supervised by : Vicky Zhang

Checked by : Lix Li

Two handwritten signatures in black ink. The top signature is for Vicky Zhang and the bottom signature is for Lix Li.

**Factory locations**

Hengdian Group Tospo lighting Co., Ltd.  
Hengdian Industrial Zone, 322118 Dongyang City  
Jinhua, Zhejiang Province  
China

Taiwan Surface Mounting Technology (SuZhou) Co., Ltd.  
No. 888 Ganquan Dong Road  
Economic Technology Development Zone  
Wujiang, Suzhou China