

# Ibérica de Iluminación

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## PROYECTOR MAGNUM PHILIPS XITANIUM



IK10



IP65

5 AÑOS GARANTIA

ES MODULAR

### INFORMACIÓN DEL PRODUCTO

Luminaria LED PHILIPS XITANIUM DRIVER es fiable, segura y asequible. Es una gama que se ha mejorado para dar el mayor rendimiento y están diseñadas para reemplazar las luminarias de halogenuro, vapor de sodio, etc antiguas. Se ha mejorado para alcanzar una eficacia mucho más alta, teniendo 180lm/w.

### APLICACIÓN

- VIENE DESMONTADO.
- Es un producto versátil y fácil de transportar.
- Diversas aplicaciones: campos de panel, campos de fútbol, polideportivos, etc.

### HOUSING

- Está fabricado en ALUMINIO 6063 y PMMA.
- Anticorrosión salina.
- Es regulable por 1-10V o opcional DALI.
- Rango de temperatura: -20°C ~ +55°C.

### MONTAJE

- Anclaje en pared o en báculo.
- Colocación en soporte para varias luminarias a la vez.
- ESTE PRODUCTO VIENE DESMONTADO (Opción de montaje en almacén).

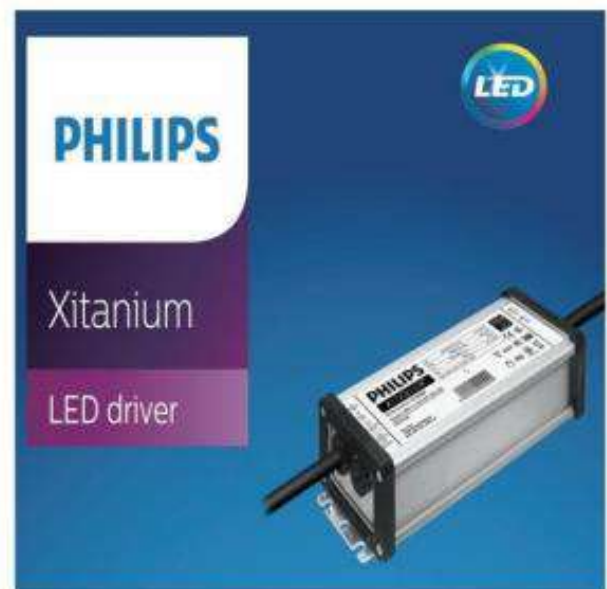
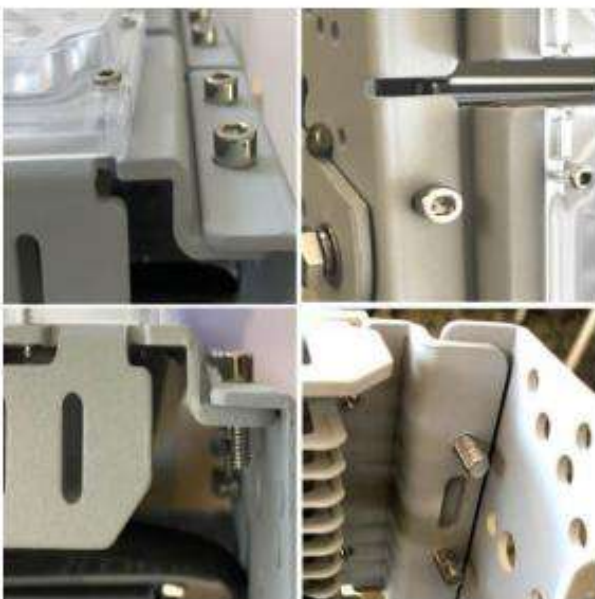
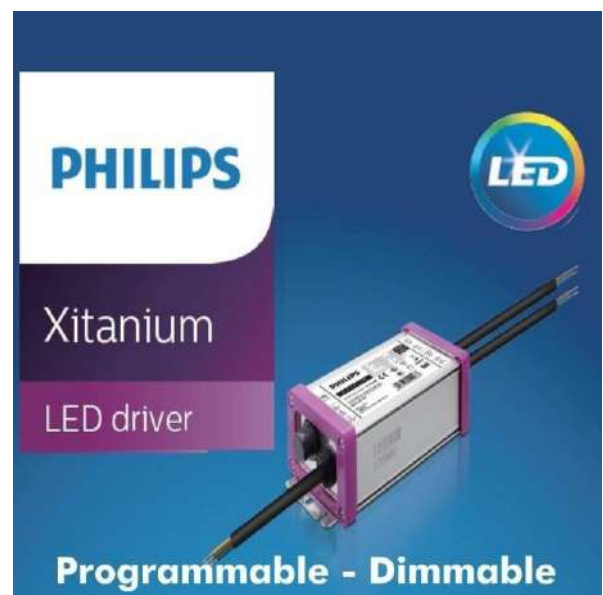


## **MONTAJE ÓPTICO Y LED**

- Un producto de alto rendimiento, que ofrece una confiabilidad excepcional.
- Versión **disponible en 4000k y 5000k** con un CRI de 70.
- **Ángulo de apertura CONSULTAR.**
- Tiene una vida estimada de 50.000H.

## **ELÉCTRICA**

- 175v-265V / 50-60Hz
- Factor de potencia: 0.99
- Clase energética D



## PROYECTOR MAGNUM PHILIPS XITANIUM

### **REFERENCIA:** MAGNUMPH

Potencia nominal: 50w / 100w / 150w / 200w / 400w ...

Tensión Nominal: 175-265V

Temperatura de Luz: 4000K -5000K

CRI -Índice Reproducción Cromática: 70

Material de Construcción: Aluminio +PMMA

Clase Energética: D

Luminosidad-Lm: 50w (7.500Lm), 100w (15.000Lm), 150w (22.500Lm), 200w (30.000Lm) y 400w (60.000Lm).

Tipo de LEDs: 84 Diodos SMD 3030

Angulo de Apertura (º): CONSULTAR

Eficacia Diodo LED (Lm/W): 180 Lm/W

Eficacia luminosa (Lm/W): 150Lm/W

Certificados: CE - ROHS

Grado de IP: IP65-Exterior

Vida Estimada Diodo LED (H): 50.000

Factor de Potencia (PF): 0,99

Frecuencia de Trabajo (Hz): 50/60Hz

Rango Temperatura (°C): -20°C ~ +55°C

Ciclos de Encendidos: 100.000

Tiempo de Arranque (s): 0,2s

Información Adicional: ESTE PRODUCTO SE ENTREGA DESMONTADO

Protección impacto (IK): IK10

Garantía años: 5

## MONTAJE

### Instrucciones de Montaje:

1 Conectar el cable del módulo al driver. Introducir los pines en la posición correcta hasta que quede ajustado.



2 Acoplar el cableado detrás del driver para no estorbe.



3 Pasar el módulo por debajo de guía. Alinear los agujeros



5 Realizar el mismo proceso para el resto de los módulos en el caso de tener más.

4 Con las llaves allen apretar todos los tornillos autoroscantes hasta que quede fijado el módulo.



6 Conectar la instalación eléctrica y comprobar el funcionamiento del foco.

# PHILIPS

## Xitanium

### LED driver



## Datasheet

### Xitanium Outdoor LED Drivers Independent 1-10V

Xi LP 65W 0.3-1.05A S1 230V I150

Philips Xitanium Lite Programmable LED drivers are value engineered to deliver a carefully selected feature set and high-end performance, making it a preferred choice for many outdoor applications. The portfolio offers high flexibility with a customizable operating window, enabling differentiation in LED lighting designs via system tuning and being prepared for LED efficacy upgrades.

In this product family Philips introduces new drivers in a stretched form factor with a balanced feature set, which offer high value for both OEM customers and end-users. The products can replace the existing programmable outdoor LED drivers and will bring significant improvement in programming, assembly into a luminaire and electrical performance. One of the key features is SimpleSet®, an easy and fast way to configure the driver without the need to power the driver.

#### Benefits

- Ultimate robustness, offering peace of mind and lower maintenance costs
- Energy savings through high efficiency and via a choice of dimming options
- Balanced configurable feature set covering the most common applications
- Consistent waterproof performance through the lifecycle
- Easy to design-in, configure and install for Class I applications

#### Features

- SimpleSet®, wireless configuration interface
- High surge protection
- Long lifetime and robust protection against moisture, vibration and temperature
- Configurable operating windows (AOC)
- External control interface (1-10V) available
- Digital Configuration Interface (DCI) via MultiOne Interface
- Autonomous or Fixed time based (FTBD) dimming via integrated 5-step DynaDimmer
- Programmable Constant Light Output (CLO)
- Integrated Driver Temperature protection

#### Application

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

## Electrical input data

Specification item	Value	Unit	Condition
Rated input voltage range	202...254	V <sub>ac</sub>	Performance range
Rated input voltage	230	V <sub>ac</sub>	
Rated input frequency range	47...63	Hz	Performance range
Rated input current	0.3	A	@ rated output power @ rated input voltage
Max. input current	0.33	A	@ rated output power @ minimum performance input voltage
Rated input power	75	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	≤ 86	%	@ rated output power @ rated input voltage
Input voltage AC range	85...305	V <sub>ac</sub>	Safety operational range
Input frequency AC range	45...66	Hz	Operational range
Isolation Input to Output	Basic		

## Electrical output data

Specification item	Value	Unit	Condition
Regulation method	Constant Current		
Output voltage	31...93	V <sub>dc</sub>	
Output voltage max	130	V	Peak voltage at open load
Output current	0.07...1.05	A	Full output current setting
Output current min programmable	300	mA	
Output current min dimming	70	mA	
Output current tolerance	± 5	%	
Output current ripple LF	≤ 4	%	Ripple = peak/average @ ≤ 1KHz
Output current ripple HF	≤ 15	%	
Output power	2.5...65	W	Full output

## Electrical data controls input

Specification item	Value	Unit	Condition
Control method	1-10	V	Default: 1-10V. Optional: reversed 1-10V, reversed 0-5V
Dimming range	10...100	%	
Galvanic Isolation	Basic		

## Logistical data

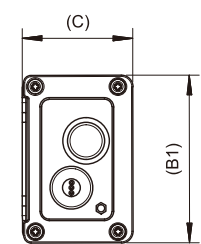
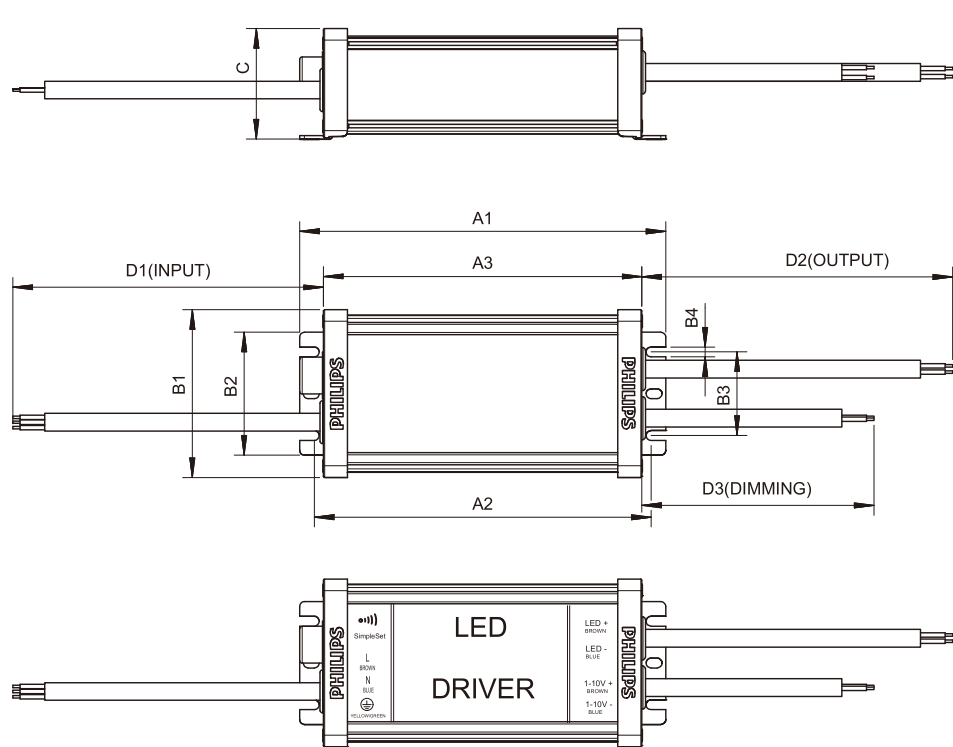
Specification item	Value
Product name	Xi LP 65W 0.3-1.05A S1 230V I150
Logistic code 12NC	9290 014 73980
Pieces per box	16

Wiring & Connections

Specification item	Value	Unit	Condition
Input wire cross-section	1.04	mm <sup>2</sup>	Waterproof cable
Output wire cross-section	1.04	mm <sup>2</sup>	Waterproof cable
Dimming wire cross-section	1.04	mm <sup>2</sup>	Waterproof cable
Maximum cable length	350	mm	Total length of wiring including LED module, one way

Dimensions and weight

Specification item	Value	Unit	Condition
Length (A1)	150	mm	
Length (A2)	138	mm	
Length (A3)	130	mm	
Width (B1)	68.2	mm	
Width (B2)	50	mm	
Fixing hole distance (B3)	34	mm	
Fixing hole distance (B4)	4	mm	
Height (C)	45	mm	
Input cable length (D1)	450	mm	
Output cable length (D2)	350	mm	
Control cable length (D3)	300	mm	
Weight	650	gram	



Data Sheet	
Item	Dimensions
A1	150 +0.5/-2.5
A2	138 +0.5/-2.5
A3	130 +0.5/-2.5
B1	68.2 +0.5/-0.5
B2	50 +0.3/-0.3
B3	34 +0.3/-0.3
B4	4 +0.3/-0.3
C	45 +0.5/-0.5
D1	450 +30/-30
D2	350 +30/-30
D3	300 +30/-30



## Operational temperatures and humidity

Specification item	Value	Unit	Condition
Ambient Temperature	-40 ... +55	°C	Higher ambient temperature allowed as long as T <sub>case-max</sub> is not exceeded
T <sub>case-max</sub>	80	°C	Maximum temperature measured at T <sub>case-point</sub>
T <sub>case-life</sub>	70	°C	Measured at T <sub>case-point</sub>
Maximum housing temperature	90	°C	In case of a failure
Relative humidity	10...90	%	Non-condensing

## Storage temperature and humidity

Specification item	Value	Unit	Condition
Ambient temperature	-40...+80	°C	
Relative humidity	5 ... 95	%	Non-condensing

## Lifetime

Specification item	Value	Unit	Condition
Driver lifetime	50,000	hours	Measured temperature at T <sub>case-point</sub> is T <sub>case-max</sub> . Maximum failures = 10%

## Programmable features

Specification item	Value	Remark	Condition
Set output current (AOC)	SimpleSet	See Design-in guide	Default output current: = 700 mA
Constant Lumen Over Lifetime (CLO)	Yes		
Diagnostics	Yes		
Dynadimmer	Yes		
Ampdim	Yes		

## Features

Specification item	Value	Remark	Condition
Open load protection	Yes		Automatic recovering
Short circuit protection	Yes		Automatic recovering
Over power protection	Yes		Automatic recovering
Hot wiring	No		
Over temperature protection driver	Yes		Automatic recovering
Overheating protection	Yes		Automatic recovering
Input over-voltage	Yes		320Vac @ 48hrs
Suitable for fixtures with protection class	I		per IEC60598

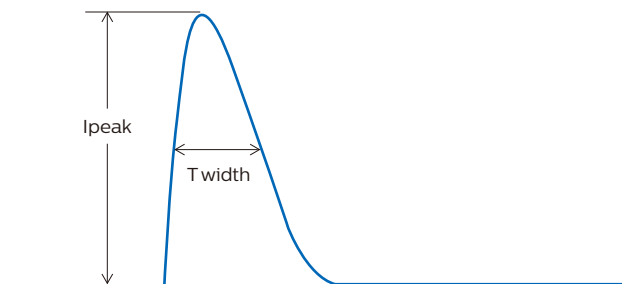


## Certificates and Standards

Specification item	Value
Approval Marks	CE / ENEC / CB / CCC
Ingress Protection Rating	IP66/67

## Inrush current

Specification item	Value	Unit	Condition
Inrush Current $I_{peak}$	35	A	Input voltage 230V
Inrush Current $T_{width}$	210	$\mu s$	Input voltage 230V, measured at 50% $I_{peak}$
Drivers / MCB 16A Type B	18	pcs	



MCB	Rating	Relative number of LED drivers
B	10A	63%
B	13A	81%
B	16A	100% (stated in datasheet)
B	20A	125%
B	25A	156%
C	10A	104%
C	13A	135%
C	16A	170%
C	20A	208%
C	25A	260%

## Driver touch current / protective conductor current

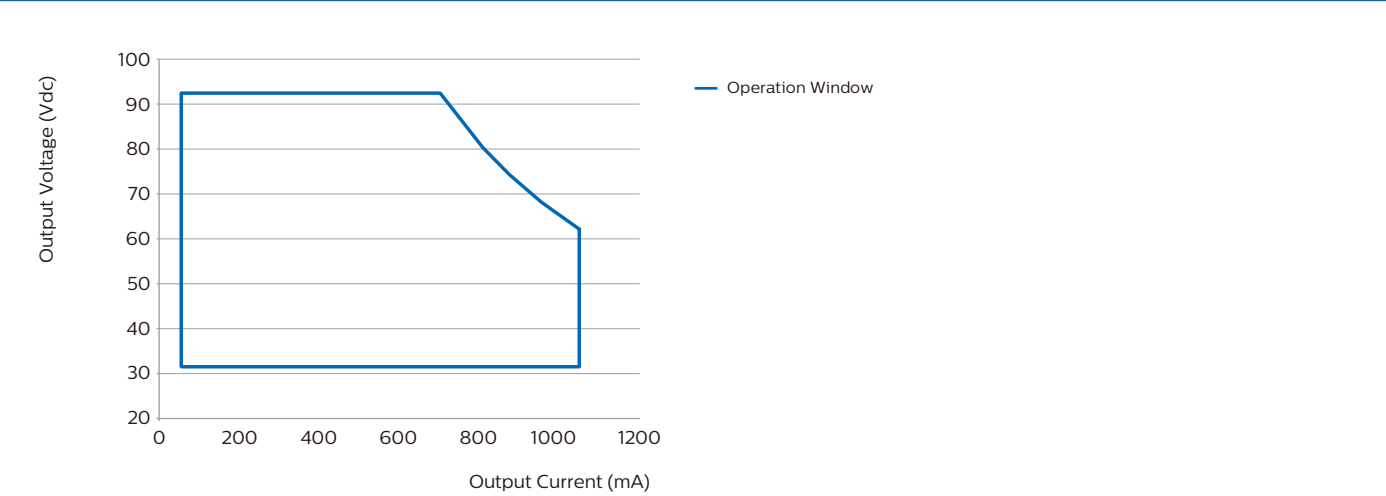
Specification item	Value	Unit	Condition
Typical protective conductor current (ins. Class I)	< 0.7	mA rms	Acc. IEC61347-1. LED module contribution not included

## Surge immunity

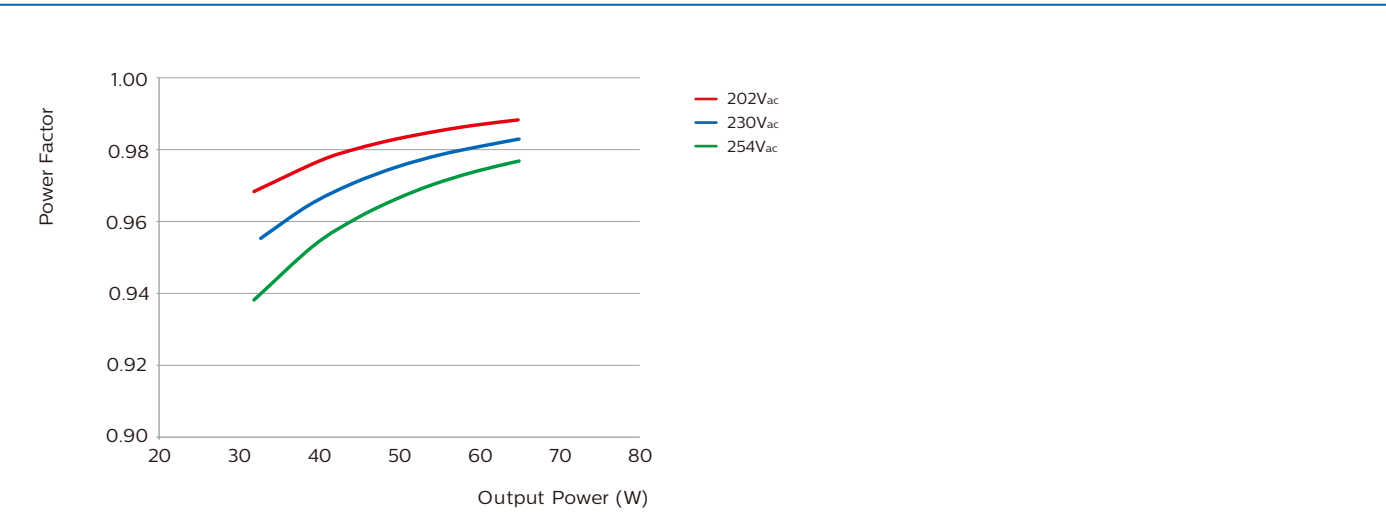
Specification item	Value	Unit	Condition
Mains surge immunity (diff. mode)	6	kV	L-N, acc. IEC61000-4-5. 2 Ohm, 1.2/50us, 8/20us
Mains surge immunity (comm. mode)	10	kV	L/N - GND acc. EN61547 12 Ohm, 1.2/50us, 8/20us

Graphs

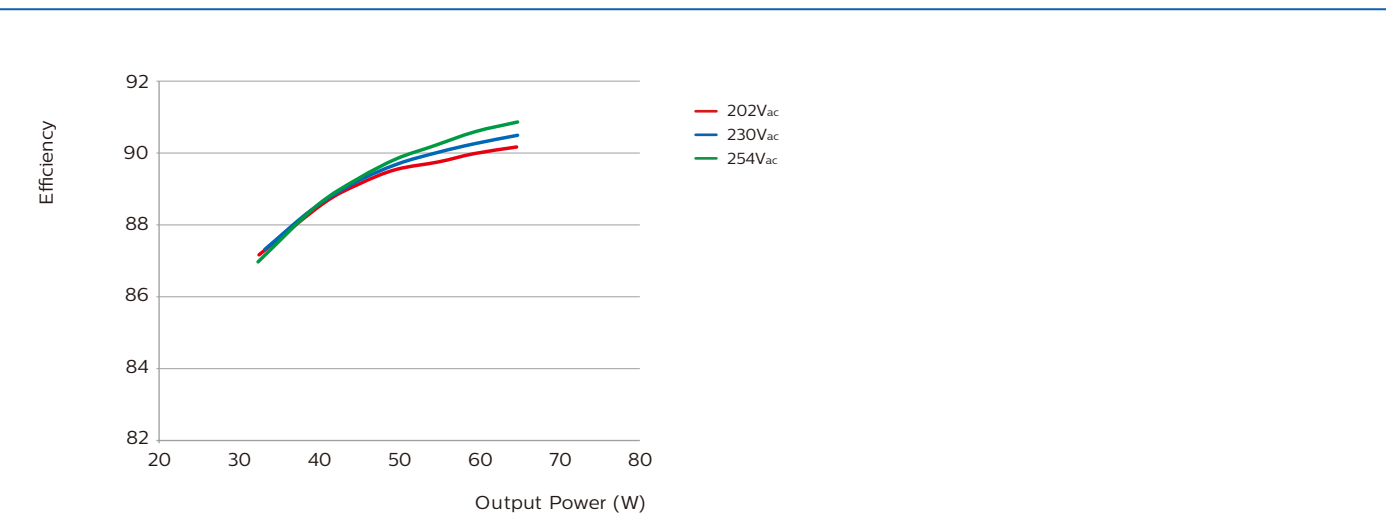
Operating window



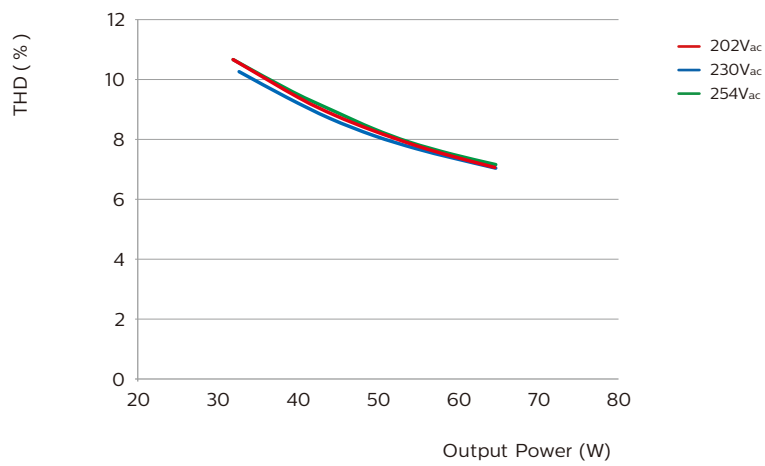
Power factor versus output power



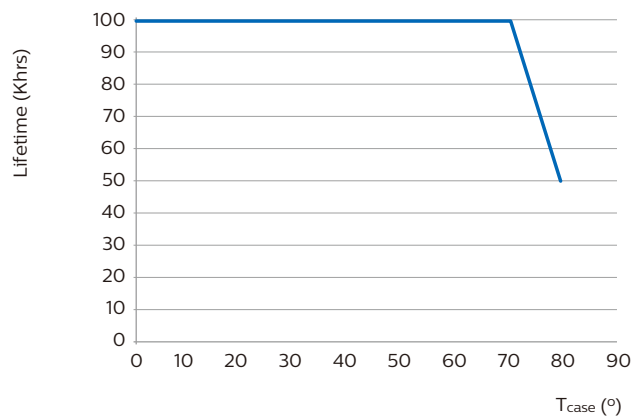
Efficiency versus output power



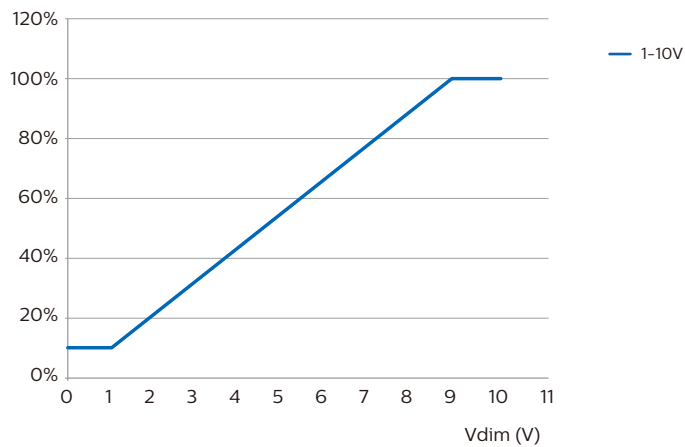
## THD versus output power



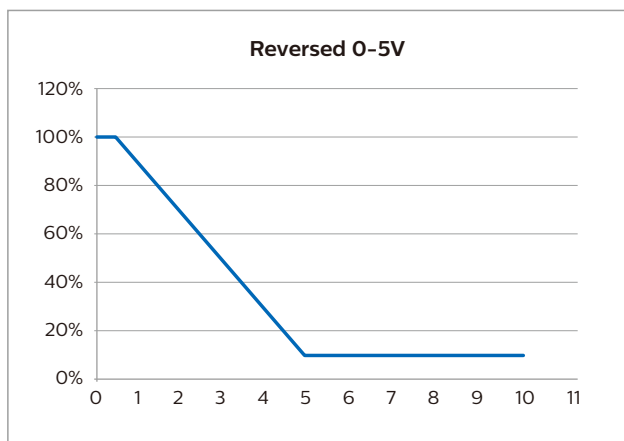
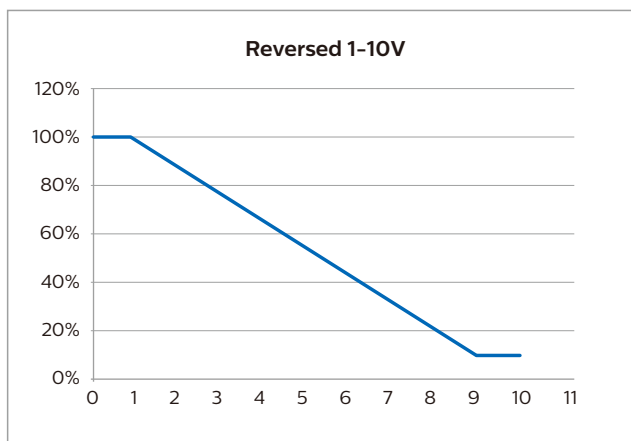
## Lifetime vs Tcase



## Dimming Curve



## Reversed



### Note:

1. During reverse dimming mode, when the Dim+ /Dim- is open, the driver will be at maximum output current.
2. During reverse dimming mode, there is a hysteresis of 2V between 10V and 12V to keep previous status unchanged when dim voltage is above the linear dimming range



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Date of release: December 18, 2018

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# PHILIPS

## Xitanium

### LED driver



## Datasheet

### Xitanium Outdoor LV LED Drivers Adjustable Current Independent Xitanium 200W 2.8-5.6A AOC 230V I250

Xitanium LV LED adjustable current drivers are specifically designed for maximum reliability and core flexibility in low voltage outdoor applications. With superior surge protection, these durable, independently housed drivers deliver consistent, high performance to luminaires even after multiple indirect lightning strikes – an ideal solution for OEMs that need reliable, adjustable output in a rugged independent form factor.

#### Benefits

- Low voltage/high current output fits the application of LED strings connecting in parallel
- IP rated housing could be put into a gearbox without fully sealed
- Quick solution without luminaires re-design (perfect for tunnel lighting application)
- AOC (Adjustable Output Current) gives the full flexibility to output different currents to spec-in different projects
- Easy adjustment of output current/voltage by only one screwdriver
- Robust specifications for moisture, vibration and extreme temperature protection
- Consistent quality of light over life cycle

#### Features

- Robust anti-surge protection
- Outrush current limitation to protect module
- Adjustable output current with wide window
- High lifetime warrantee at Tc Max and Tc Lifetime

#### Applications

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

## Electrical input data

Specification item	Value	Unit	Condition
Nominal Input Voltage	220...240	V <sub>ac</sub>	
Input Voltage AC	198...264	V <sub>ac</sub>	Performance range
Operation Voltage AC	110...305	V <sub>ac</sub>	Safety operation
Nominal Input Frequency	50...60	Hz	
Input Frequency AC	47...63	Hz	Maximum permissible range
Nominal Input Current	0.9...1.09	A	220V...240V at full load
Maximum Input Current	1.12	A	At 202V
Nominal Input Power	218	W	At 230V at full load
Power Factor	0.95		At 230V at full load
Total Harmonic Distortion	<10	%	At 230V at full load
Total Harmonic Distortion	<20	%	At 230V at 50-100% load
Efficiency	91.5	%	At 230V at full load

## Electrical Output data

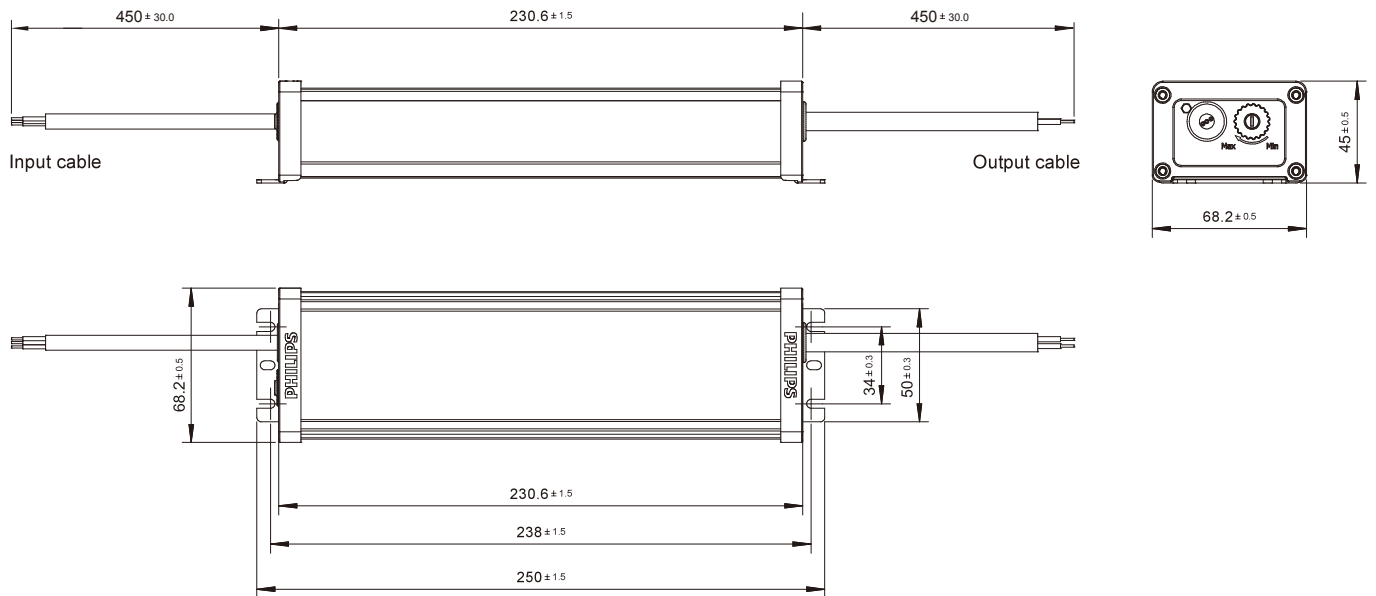
Specification item	Value	Unit	Condition
Regulation Method	Constant Current		
Output Voltage	18...71	V <sub>dc</sub>	
Output Voltage Max	80	V <sub>dc</sub>	Peak voltage at open circuit
Output Current	2.8...5.6	A	Performance range
Output Current Tolerance	5	%	At max. output currentt, Ta=25 °C
Output Current Ripple LF	5	%	Ripple = peak / average, at<1kHz
Output Power	200	W	At full load
Galvanic Isolation	Yes		Double; 3750V

## Electrical data controls 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	1.0	mm <sup>2</sup>	3-wire cable; 300V/500V rating or higher
Output Wire Size	1.5	mm <sup>2</sup>	2-wire cable; 300V/500V rating or higher
Input & Output Wire Length	450 ±30	mm	Out of enclosure
Control Wire Size	N/A	mm	N/A
Control Wire Length	N/A	mm	



## CE Isolation

	Input Wires	Output Wires	Chassis
Input Wires	N/A	Double	Basic
Output Wires	Double	N/A	Basic
Chassis	Basic	Basic	N/A

## Operational Temperature and Humidity

Specification item	Value	Unit	Condition
Ambient Temperature	-40...+50	°C	
Tcase Maximum	85	°C	Measured at Tc-point
Tcase Life	75	°C	Measured at Tc-point
Tcase Cut-Off	90	°C	Power to LEDs is reduced

## Storage Temperature and Humidity

Specification item	Value	Unit	Condition
Ambient Temperature	-40...+80	°C	

## Lifetime

Specification item	Value	Unit	Condition
Lifetime	100,000	Hours	At T <sub>case</sub> Life; Survival rate = 90%



## Programmable Features

Specification item	Value	Remark	Condition
Adjustable Output Current (AOC)	N/A		See Design-In Guide
LED Module Temperature Derating (MTP)	N/A		
Constant Lumen Output (CLO)	N/A		
DC Emergency Dimming (DCEmDIM)	N/A		
Corridor Mode	N/A		
Energy Metering	N/A		
Diagnostics	N/A		

## Features

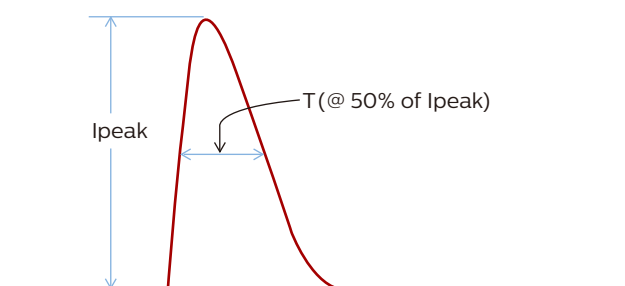
Specification item	Value	Remark	Condition
Over Temperature Protection	Yes	Dim Down	Automatic Recovery
Open Circuit Protection	Yes		Automatic Recovery
Short Circuit Protection	Yes		Automatic Recovery
Over Power Protection	Yes		
Hot Wiring	N/A		
Suitable for fixtures with Protection Class	Class I		

## Certificates and Standards

Specification item	Value
Approval Marks	CE / CB / CCC / KC / TISI / ENEC
Ingress Protection Rating	IP65

## Inrush current

Specification item	Value	Unit	Condition
Inrush Current I <sub>peak</sub>	62	A	At 230Vac
Inrush Current T <sub>width</sub>	684	μs	At 230Vac, measured at 50% I <sub>peak</sub>
Drivers per MCB 16A Type B	4	pcs	



## Earth Leakage Current

Specification item	Value	Unit	Condition
Typical Touch Current	2	mApk	Meets IEC 60598; LED module not included

## Surge Capability

Specification item	Value	Unit	Condition
Mains Surge Capability Differential Mode	4	KV	L-N, 20hm
Mains Surge Capability Common Mode	6	KV	L/N-GND, 120hm

## Wiring & Connections

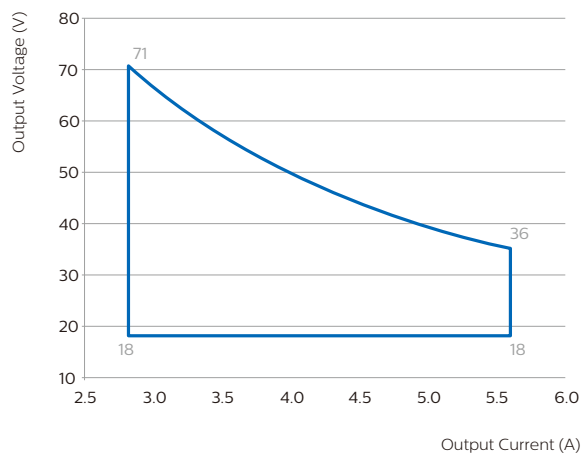
Specification item	Value	Unit	Condition
Length overall	250	mm	
Width overall	68.2	mm	
Height overall	45	mm	
Mounting Holes Distance	238	mm	
Mounting Holes Width	34	mm	
Mounting Holes Size	4	mm	For M4 with max head diameter of 10mm
Weight	920	g	

## Logistical Data

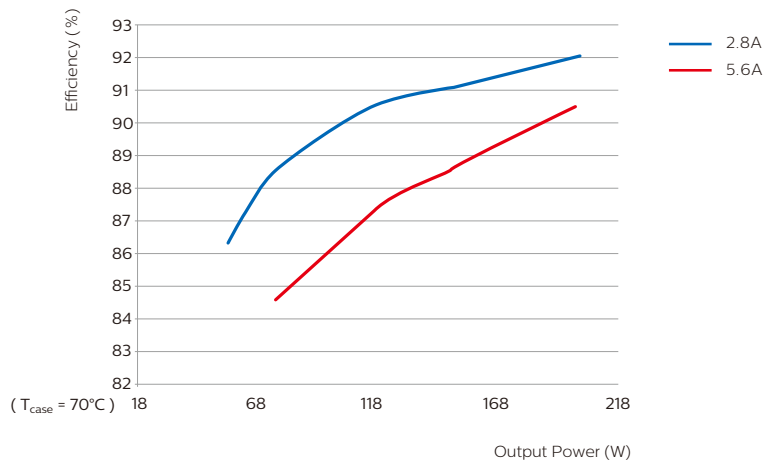
Specification item	Value
Product Name	Xitanium 200W 2.8-5.6A AOC 230V I250
Logistics Code 12NC	929001404680
Pieces per Box	10

Graphs

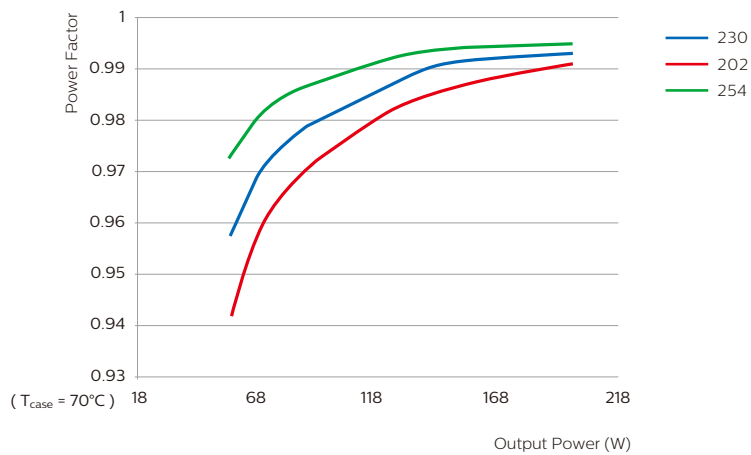
Operating window



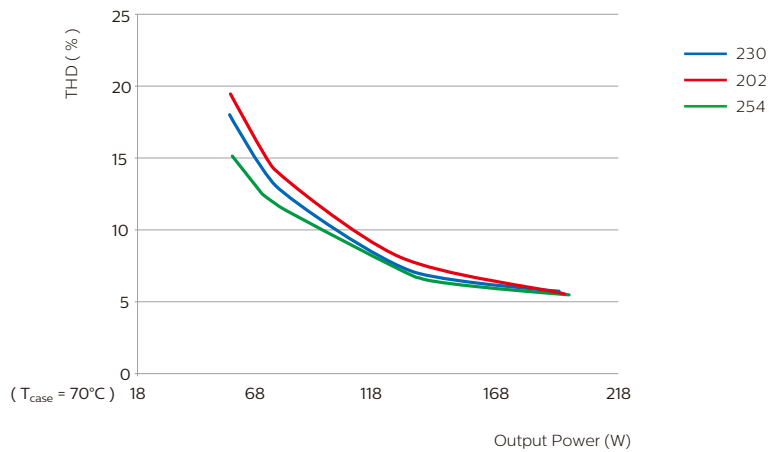
Efficiency versus output power



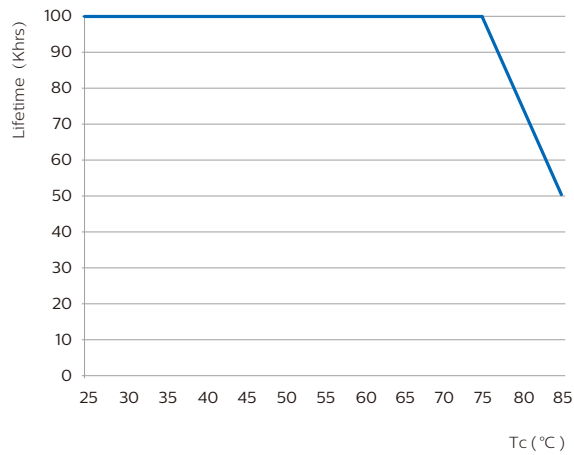
Power factor versus output power



## Total Harmonic Distortion



## Lifetime vs Tcase



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Date of release: October 07, 2016

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## EU Declaration of Conformity

## We, Philips Lighting

I.B.R.S./C.C.R.I. /Numéro 1046

5600 VB Eindhoven, The Netherlands

Internal Ref. Nr.: 2017E0114

Year in which CE Mark was first affixed: 2017

## Declare under our responsibility for the product

Product Range:	NAME:	Xitanium 100W 0.25-0.7A 220V TD16 230V
Product Code:	12NC	9290 015 47306

The designated product is in conformity with the essential requirements of the following European Directives and harmonized standards:

## Low Voltage Directive (LVD), 2014/35/EU

EN 61347-1:2008 + A1:2011 +A2:2013  
EN 61347-2-13:2014Lamp control gear Part 1: General and safety requirements  
Lamp control gear Part 2-13: Particular requirements for DC or AC  
supplied electronic gear for LED modules

## Electromagnetic compatibility Directive (EMC), 2014/30/EU

EN 55015:2013  
EN 61000-3-2:2014  
EN 61000-3-3:2013  
EN 61547:2009Radio disturbance for lighting equipment test is carried out in CISPR15  
Limits for harmonic currents emissions  
Disturbance in supply systems: Voltage fluctuations and Flicker  
Equipment for general lighting purposes – EMC immunity requirements

## EcoDesign requirements for energy-related products Directive (ErP), 2009/125/EC

Implementing Measure EC/1194/2012

## Restriction of the use of certain Hazardous Substances in electrical and electronic equipment Directive (RoHS), 2011/65/EU

EN 50581:2012

and is produced under a quality scheme at least in conformity with ISO 9001 or CENELEC permanent documents.

March 28, 2017

Ms. C. Sweegers  
Regulatory Affairs Manager LED Electronics  
High Tech Campus 45  
5656 AE Eindhoven, The Netherlands



# CERTIFICATE

Number: 89675

The management system of the organization(s) and locations mentioned on the addendum belonging to:

**Philips Electronics Nederland B.V.**

**Philips Innovation Services**

**High Tech Campus 34**

**5656 AE Eindhoven**

**The Netherlands**

including the implementation meets the requirements of the standard:

## ISO 9001:2015

Scope:

Contract design and development of electronic, optical, mechatronic and software devices, components thereof and prototypes;

Contract manufacture of electronic, optical, and mechatronic devices and components thereof;

Provision of related service, secondment and consultancy

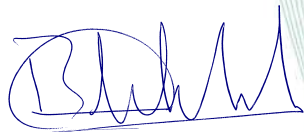
Certificate expiry date: 1 October 2023

Certificate effective date: 28 October 2020

Certified since: 1 January 1999

This certificate is valid for the organization(s) and/or locations mentioned on the addendum.

DEKRA Certification B.V.



B.T.M. Holtus  
Managing Director



J.A. van Vugt  
Certification Manager

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# ADDENDUM

To certificate: 89675

The management system of the organization(s) and/or location(s) of:

## Philips Electronics Nederland B.V. Philips Innovation Services

High Tech Campus 34  
5656 AE Eindhoven  
The Netherlands

Certified organization(s) and/or locations:

Different scope

Philips Electronics Nederland B.V.  
Philips Innovation Services  
High Tech Campus 34  
5656 AE Eindhoven  
The Netherlands

Contract design, development of electronic, optical, mechatronic and software devices, components thereof and prototypes;

Provision of related service, secondment and consultancy

Activities at:  
HTC 29, 37  
Eindhoven  
The Netherlands

Philips MMD – Micro Devices  
Kastanjelaan 400  
5616 LZ Eindhoven  
The Netherlands

Contract design, development of electronic, optical, and mechatronic devices, components thereof and prototypes;

Contract manufacture of electronic, optical, and mechatronic devices and components thereof;

Provision of related service and secondment

Philips GmbH, Innovation Services  
Philipsstrasse 8  
52068 Aachen  
Germany

Contract design, development of mechatronic devices, components thereof and prototypes;

Contract manufacture of mechatronic devices and components thereof;

Provision of related service and secondment



# ADDENDUM

To certificate: 89675

The management system of the organization(s) and/or location(s) of:

## **Philips Electronics Nederland B.V. Philips Innovation Services**

**High Tech Campus 34  
5656 AE Eindhoven**

Philips MMD – MEMS  
High Tech Campus 4  
5656 AE Eindhoven  
The Netherlands

Contract design, development of electronic, optical, and  
mechatronic devices, components thereof and prototypes;

Contract manufacture of electronic, optical, and mechatronic  
devices and components thereof;

Provision of related service and secondment

Addendum expiry date: 1 October 2023  
Addendum effective date: 28 October 2020



# CERTIFICATE

Number: 91936

The environmental management system of the organizations and locations mentioned on the addendum belonging to:

## Philips Electronics Nederland B.V. Philips Innovation Services

High Tech Campus 34  
5656 AE Eindhoven  
The Netherlands

including the implementation meets the requirements of the standard:

## ISO 14001:2015

### Scope:

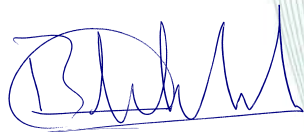
Design, development and manufacture for third parties of electronic, optical, mechatronic and software devices, components thereof and prototypes; including provision of related services: secondment and consultancy.

The provision of consultancy services, instrumentation services, delivery of industrial and chemical supplies and collection and disposal of chemical waste for the High Tech Campus location in Eindhoven

Certificate expiry date: 1 February 2024  
Certificate effective date: 26 February 2021  
Certified since\*: 1 February 2000

This certificate is valid for the organizations and locations mentioned on the addendum.

DEKRA Certification B.V.



B.T.M. Holtus  
Managing Director



S. Dieperink  
Certification Manager

© Integral publication of this certificate and adjoining reports is allowed  
\* against this certifiable standard / possibly by another certification body





# ADDENDUM

To certificate: 91936

The environmental management system of the organizations and locations of:

## **Philips Electronics Nederland B.V. Philips Innovation Services**

**High Tech Campus 34  
5656 AE Eindhoven  
The Netherlands**

Certified organizations and locations:

Legal entities:

- Philips GmbH,  
Innovation Services  
Philipsstrasse 8  
52068 Aachen  
Germany
- Philips Electronics Nederland B.V.  
Philips Innovation Services  
High Tech Campus 5  
5656 AE Eindhoven

Including office addresses:

- Philips Electronics Nederland BV  
Philips Innovation Services  
Kastanjelaan 400  
5616 LZ Eindhoven

Philips Electronics Nederland B.V.  
Philips Innovation Services  
High Tech Campus 34  
5656 AE Eindhoven

Addendum expiry date: 1 February 2024  
Addendum effective date: 26 February 2021