



## Datasheet

### Xitanium non-isolated Dip Switch driver

#### Xi 65W 200-350mA 185V DS 230V EL G5

**9290 048 31301**

Philips Xitanium non-isolated Dip Switch Linear LED drivers G5 have 4 output currents, offer industry leading performance and reliability at optimized cost. These drivers offer the same level of performance as Xitanium adjustable output current linear drivers to ensure high quality of light. Xitanium drivers have common features such as low ripple output current, adjustable output current by dip switch and EL function. They are specifically designed to ensure great EMI performance, high robustness and safe usage.

#### Features

- Class I application
- Low Ripple less than 4%
- 4 output currents by Dip switch
- High efficiency, high Pf, low THD
- EL function
- 100,000 hours lifetime @ Tc-life

#### Benefits

- Provides options for different luminaire designs
- Comfortable for the eyes
- Selectable output current enables flexibility and SKU reduction
- Energy saving
- Peace of mind with proven reliability

#### Application

- Waterproof lighting
- Recessed, surface and suspended linear lighting

## Logistical data

Specification item	Value
Product name	Xi 65W 200-350mA 185V DS 230V EL G5
Logistic code 12NC	9290 048 31301
Pieces per box	50
Weight	110 gram

## Electrical input data

Specification item	Value	Unit	Condition
Rated input voltage range	220...240	V <sub>ac</sub>	Performance range
Rated input voltage	230	V <sub>ac</sub>	
Rated input frequency	50...60	Hz	Performance range
Rated input current	0.3	A	@ rated output power @ rated input voltage
Rated input power	69.0	W	@ rated output power @ rated input voltage
Power factor	0.95		@ max output power @ rated input voltage
Total harmonic distortion	15	%	@ max output power @ rated input voltage
Efficiency	92.0	%	@ rated output power @ rated input voltage @ max output voltage
Rated input voltage DC	186...250	V <sub>dc</sub>	Performance range
Rated input current DC	0.11...0.39	A <sub>dc</sub>	Performance range
Input voltage AC	198...264	V <sub>ac</sub>	Operational range
Input frequency AC	45...66	Hz	Operational range
Input voltage DC	168...275	V <sub>dc</sub>	Operational range
Isolation input to output	No		

## Electrical output data

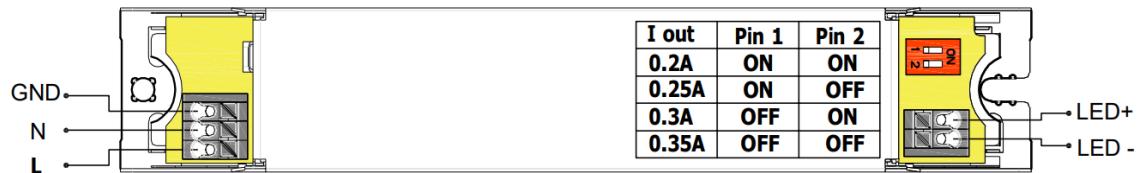
Specification item	Value	Unit	Condition
Regulation method	Constant Current		
Output voltage	120...185	V <sub>dc</sub>	
Output voltage max.	250	V	Maximum output voltage (rms)
Output current	200 / 250 / 300 / 350	mA	Select output current via the dipswitch
Output current tolerance ±	8	%	@full load
Output current ripple LF	≤ 4	%	Ripple = peak / average < 3kHz
Output current ripple HF	≤ 15	%	Ripple = peak / average total
Output P <sub>st</sub> <sup>LM</sup>	≤ 0.1		In entire operating window
Output SVM	≤ 0.1		In entire operating window
Output power	24.0...64.7	W	
Rated output power	64.7	W	

## Control interfaces

Specification item	Value	Unit	Condition
Control method	Fixed		Select output current via the dipswitches

## Wiring and Connections

Specification item	Value	Unit	Type
Input wire cross-section	0.5...1.5 / 20...16	mm <sup>2</sup> / AWG	solid / stranded wire
Input wire strip length	8.5...9.5	mm	
Output wire cross-section	0.5...1.5 / 20...16	mm <sup>2</sup> / AWG	solid / stranded wire
Output wire strip length	8.5...9.5	mm	
Maximum cable length	2	m	Total length of wiring including LED module, one way

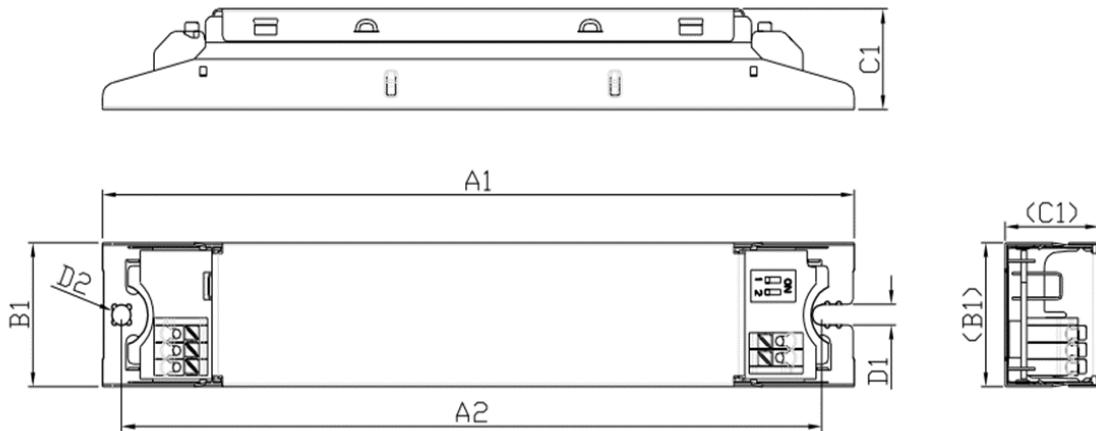


## Isolation

Insulation per IEC61347-1	Input	Output	Housing
Input	-	Non	Basic
Output	Non	-	Basic
Housing	Basic	Basic	-

## Dimensions and weight

Specification item	Value	Unit	Tolerance (mm)
Length (A1)	168	mm	
Mounting hole distance (A2)	156.4	mm	
Width (B1)	30	mm	
Height (C1)	21	mm	
Mounting hole diameter (D1)	4.3	mm	
Mounting hole diameter (D2)	4.3	mm	
Weight	110	gram	
Housing color	White		

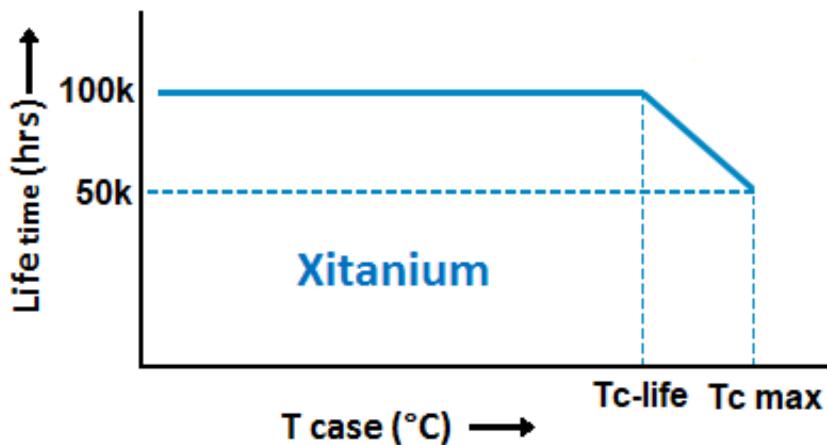


## Operational temperatures and humidity

Specification item	Value	Unit	Condition
Ambient temperature	-30...+55	°C	Higher ambient temperature allowed as long as $T_{case\text{-}max}$ is not exceeded
$T_{case\text{-}max}$	85	°C	Maximum temperature measured at $T_{case\text{-}point}$
$T_{case\text{-}life}$	75	°C	Measured at $T_{case\text{-}point}$
Maximum housing temperature	110	°C	In case of a failure, inherent by design
Relative humidity	10...90	%	Non-condensing

## Lifetime

Specification item	Value	Unit	Condition
Driver lifetime	100,000	hours	Measured temperature at $T_{case\text{-}point}$ is $T_{case\text{-}life}$ . Maximum failures = 10%



Maximum failures = 10%

#### Storage temperature and humidity

Specification item	Value	Unit	Condition
Ambient temperature	-30...+85	°C	
Relative humidity	5...95	%	Non-condensing

#### Programmable features

Specification item	Available	Default setting	Condition
Set Adjustable Output Current (AOC)	DipSwitch	350 mA	Manual set the output current via the dipswitches, see wiring diagram for an overview

#### Non-programmable features

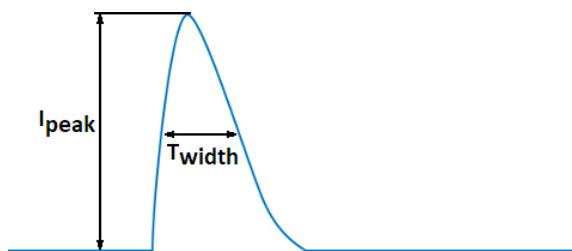
Specification item	Value	Condition
Open load protection	Yes	Automatic recovering
Short circuit protection	Yes	Automatic recovering
Over power protection	Yes	Automatic recovering
Hot wiring	No	
Suitable for fixtures with protection class	I	per IEC60598

## Inrush current

Specification item	Value	Unit	Condition
Inrush current	38.4	A	Input voltage 230V
Inrush peak width	141	μs	Input voltage 230V, measured at 50% height
Drivers / MCB 16A type B @230V AC	≤ 21	pcs	Input voltage 230V

Please refer to the driver design in guide if you use other MCB-types.

If several mini circuit breakers are used directly side-by-side (without distance pieces) a correction factor of 80% has to be applied to the rated current



## Driver touch current / protective conductor current / earth leakage current

Specification item	Value	Unit	Condition
Typical Protective Conductor Current (ins. Class I)	0.5	mA rms	Acc. IEC60598-1. LED module contribution not included

## Surge immunity

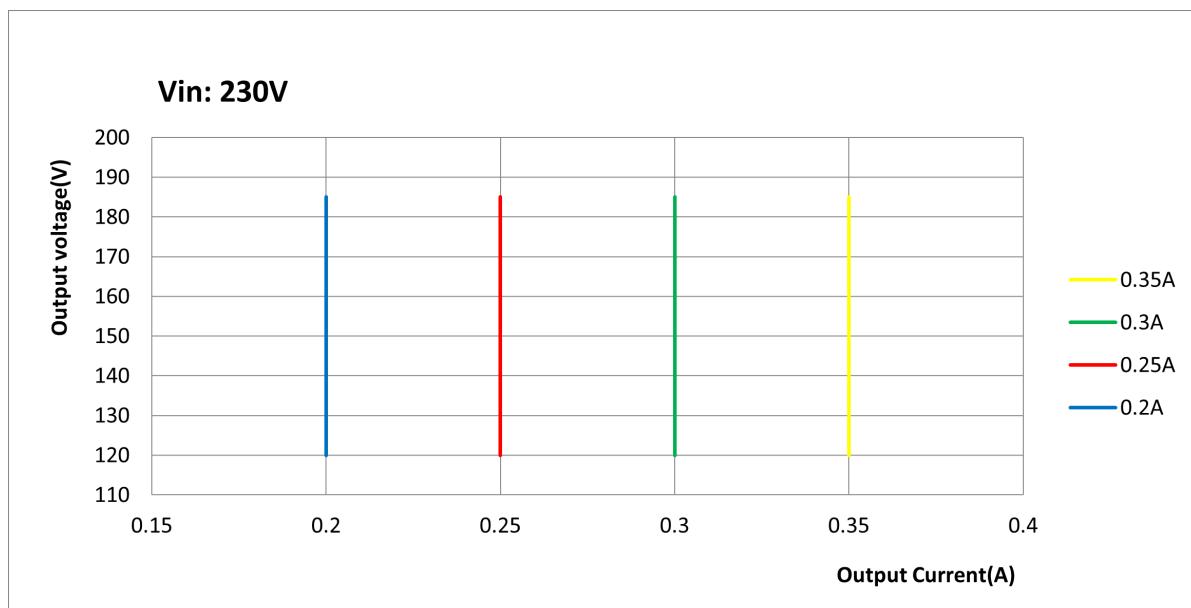
Specification item	Value	Unit	Condition
Mains surge immunity (diff. mode)	1	kV	Acc. IEC61000-4-5. 2 Ohm, 1.2/50μs, 8/20μs
Mains surge immunity (comm. mode)	2	kV	Acc. IEC61000-4-5. 12 Ohm, 1.2/50μs, 8/20μs

## Application Info (Approbation)

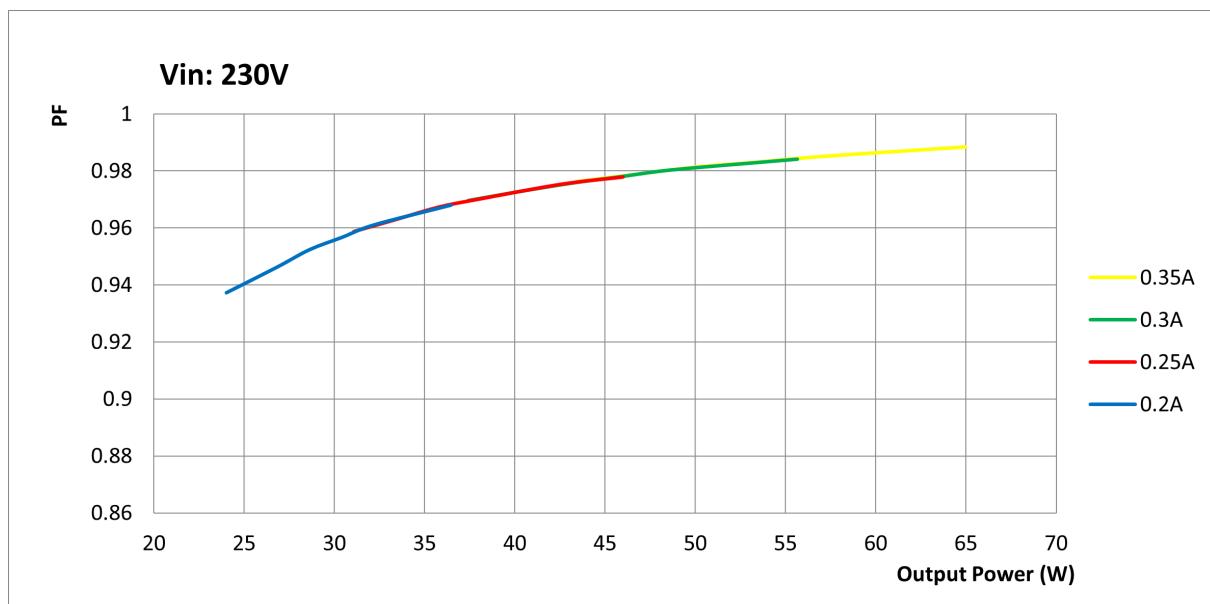
Specification item	Value
Approval marks and Certifications	CB / CCC / CE / EAC / EL / ENEC / RCM / UA / UKCA
Ingress Protection classification (IP)	20
Application	Indoor Linear
Mounting Type	Built-in

## Graphs

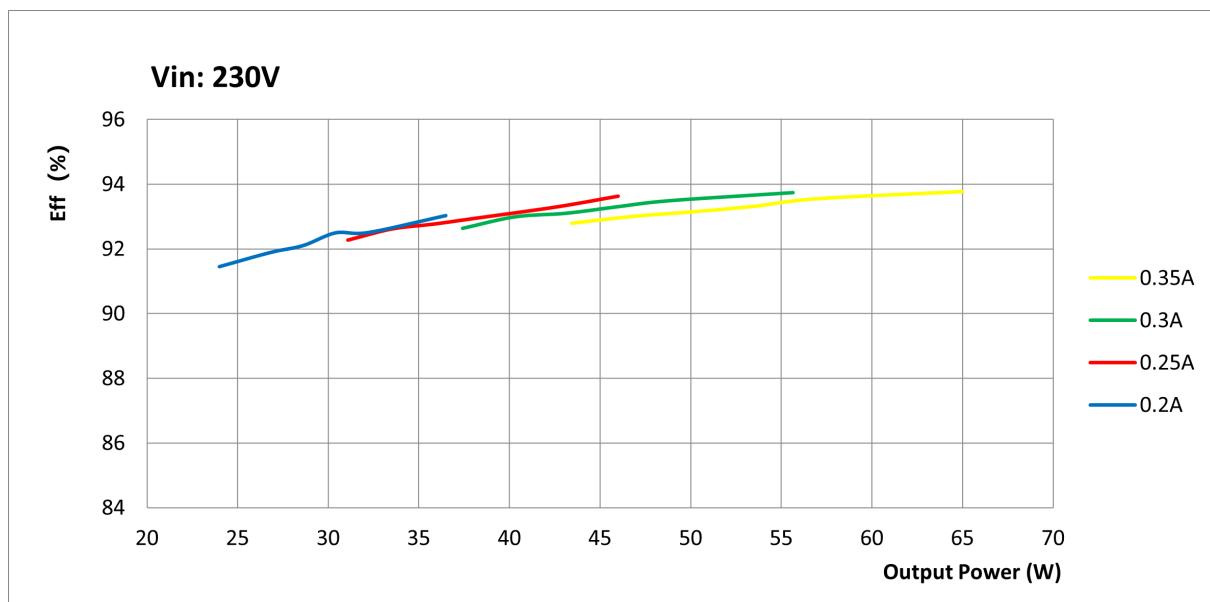
### Operating window



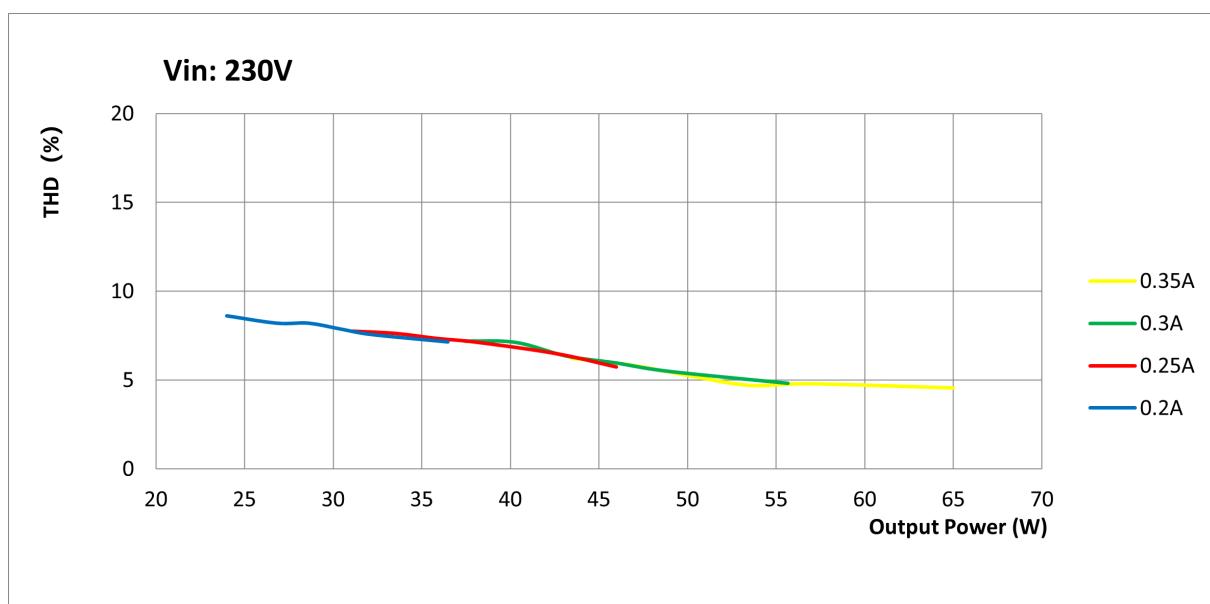
### Power factor versus output power



## Efficiency versus output power



## THD versus output power



©2025 Signify Holding, IBRS 10461, 5600 VB, NL. All rights reserved.

UK importer address: Signify Commercial UK Limited, 2 Guildford Business Park GU2 8XG, UK

The information provided herein is subject to change without notice. Signify does not give any representation or warranty as to the accuracy or completeness of the information included herein and shall not be liable for any action in reliance thereon. The information presented in this document is not intended as any commercial offer and does not form part of any quotation or contract, unless otherwise agreed by Signify.

Philips and the Philips Shield Emblem are registered trademarks of Koninklijke Philips N.V. All other trademarks are owned by Signify Holding or their respective owners.

Date of release: August 22, 2025 v1

[www.philips.com/oem](http://www.philips.com/oem)

