



# Datasheet

# Xitanium track adaptor drivers (3C)

# Xitanium 42W/a 0.3-1.05A 42V 3CG 230V

# 9290 021 29806

# Affordable and reliable LED Drivers

Affordable LED driver range offering Philips reliability. The Xitanium track driver range is compatible with COB and mid-power LEDs from any LED manufacturer.

#### **Benefits**

- Driver design based on Philips experience and knowledge of conventional fluorescent and HID technologies
- Various power ratings matching common lumen packages/applications
- Track adaptor housing design for compact track luminaire designs

### Features

- Compact size
- Specific, optimized dual-output current choice
- Long lifetime
- Low output current ripple, low input current THD
- Suitable for 3-phase track systems
- Available in white, black and grey housing color

### Application

- Public buildings (airports, cinemas, theaters, exhibition halls)
- Retail (supermarkets, shops)
- Offices

### Electrical input data

Specification item	Value	Unit	Condition
Rated input voltage range	220240	V <sub>ac</sub>	Performance range
Rated input voltage	230	V <sub>ac</sub>	
Rated input frequency range	5060	Hz	Performance range
Rated input current	0.22	A	@ full output power @ rated input voltage
Max. input current	0.25	A	@ rated output power @ minimum performance input voltage
Rated input power	50	w	@ rated output power @ rated input voltage
Power factor	0.9		@ full output power @ rated input voltage
Total harmonic distortion	20	%	@ rated output power @ rated input voltage
Efficiency	87	%	@ 230V full load
Input voltage AC range	202254	Vac	Safety operational range
Input frequency AC range	47.563	Hz	Safety operational range
Isolation input to output	SELV		

# Electrical output data

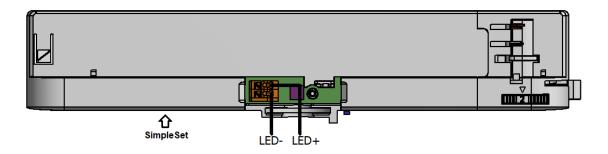
Specification item	Value	Unit	Condition
Regulation method	Constant Current		
Output voltage	1042	V <sub>dc</sub>	
Output voltage max.	60	V	Maximum output voltage (rms)
Output current	0.31.05	А	
Output current tolerance ±	5	%	
Output current ripple LF	≤ 4	%	Ripple = peak / average, < 3kHz
Output power	1142	w	

# Electrical data controls input

Specification item	Value	Unit	Condition
Control method	Fixed		Set output current via SimpleSet (AOC)

# Wiring and Connections

Specification item	Value	Unit	Туре
Output wire cross-section	0.51.5 / 2016	mm <sup>2</sup> / AWG	Changhong250, solid / stranded wire
Output wire strip length	7.58.5	mm	
Maximum cable length	0.3	m	Total length of wiring including LED module, one way

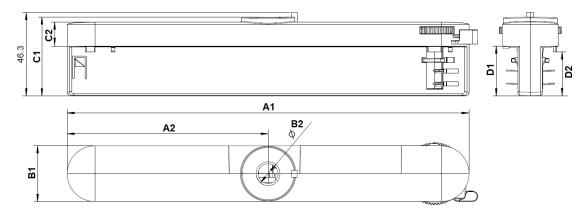


#### Insulation

Insulation per IEC61347-1	Input	Output
Input		SELV
Output	SELV	

# Dimensions and weight

Specification item	Value	Unit	Tolerance (mm)
Length (A1)	224	mm	
Mounting hole distance (A2)	112	mm	
Width (B1)	31	mm	
Width (B2)	13.2	mm	
Height (C1)	43.8	mm	
Height (C2)	13.7	mm	
Mounting hole diameter (D1)	27.3	mm	
Mounting hole diameter (D2)	24.4	mm	
Weight	160	gram	
Housing color	Grey (RAL 7040)		



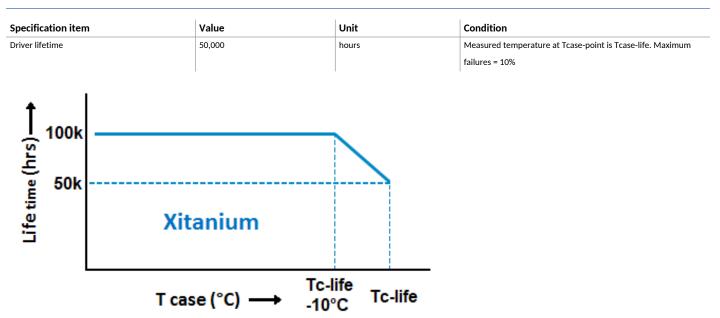
## Logistical data

Specification item	Value
Product name	Xitanium 42W/a 0.3-1.05A 42V 3CG 230V
EOC	871869973476300
Logistic code 12NC	9290 021 29806
EAN1 (GTIN)	8718699734763
EAN3	8718699734770
Pieces per box	40

# Operational temperatures and humidity

Specification item	Value	Unit	Condition
Ambient temperature	-20+35	°C	Higher ambient temperature allowed as long as Tcase-max is not
			exceeded
Tcase-max	85	°C	Maximum temperature measured at T <sub>case</sub> -point
Tcase-life	85	°C	Measured at T <sub>case</sub> -point
Maximum housing temperature	130	°C	In case of a failure, inherent by design
Relative humidity	1090	%	Non-condensing

#### Lifetime



## Storage temperature and humidity

Specification item	Value	Unit	Condition
Ambient temperature	-25+85	°C	
Relative humidity	595	%	Non-condensing

## Programmable features

Specification item	Available	Default setting	Condition
Set Adjustable Output Current (AOC)	SimpleSet	300 mA	
OEM Write Protection (OWP)	Yes	OFF	
Luminaire Info	Yes	-	

#### 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	1	per IEC60598

#### Inrush current

Specification item	Value	Unit		Condition
nrush current I <sub>peak</sub>	14	A		Input voltage 230V
nrush current T <sub>width</sub>	255	μs		Input voltage 230V, measured at 50% I <sub>peak</sub>
Privers / MCB 16A type B	≤ 36	pcs		Indicative value
<del>.</del>		MCB	Rating	Relative number of LED drivers
		В	4A	25%
		В	6A	40%
		В	10A	63%
Ipeak Twidth		В	13A	81%
·width		В	16A	100% (stated in datasheet)
		В	20A	125%
		В	25A	156%
		В	32A	200%
		В	40A	250%
		С	4A	42%
		С	6A	63%
		С	10A	104%
		С	13A	135%
		С	16A	170%
		C	20A	208%

# Driver touch current / protective conductor current

Specification item	Value	Unit	Condition
Typical Touch Current (ins. Class II)	0.7	mA peak	Acc. IEC61347-1. LED module contribution not included

c c

С

25A

32A

40A

260% 340%

415%

## Surge immunity

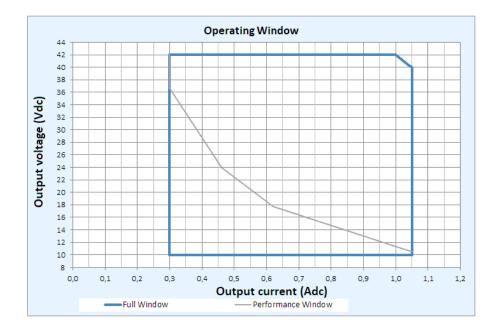
Specification item	Value	Unit	Condition
Mains surge immunity (diff. mode)	1	kV	Acc. IEC61000-4-5. 2 Ohm, 1.2/50us, 8/20us
Mains surge immunity (comm. mode)	2	kV	Acc. IEC61000-4-5. 12 Ohm, 1.2/50us, 8/20us

# **Application Info**

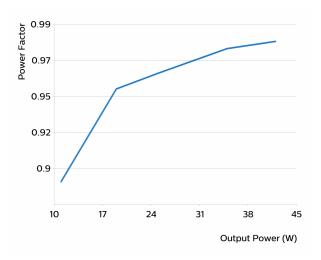
Specification item	Value
Approval marks	CE / CQC / EAC / ENEC / RCM / SELV / UA
Ingress Protection classification (IP)	20
Application	Indoor Point
Mounting Type	Track mounting

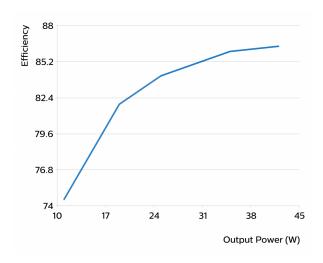
### Graphs

## Operating window

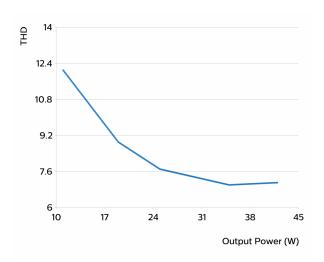


## Power factor versus output power





#### THD versus output power



#### Notes

The adapter is compatible with Global Trac Pro, Stucchi OneTrack 3 Circuit tracks.



©2021 Signify Holding, IBRS 10461, 5600 VB, NL. All rights reserved. UK importer address: Signify Commercial UK Limited, 3, Guildford Business Park, GU2 8XG.

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: January 14, 2021 v2

www.philips.com/oem