



## Datasheet

# Xitanium track adaptor drivers

Xitanium 30W/a 0.6/0.75A 40V 3CB 230V 9290 021 03706

#### 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	0.16	A	@ rated output power @ rated input voltage
Max. input current	0.19	A	@ rated output power @ minimum performance input voltage
Rated input power	37	W	@ rated output power @ rated input voltage
Power factor	0.97		@ rated output power @ rated input voltage
Total harmonic distortion	10	%	@ rated output power @ rated input voltage
Efficiency	85	%	@ rated output power @ rated input voltage
Input voltage AC range	198264	V <sub>ac</sub>	Operational range
Input frequency AC range	4566	Hz	Operational range
Isolation input to output	SELV		

## **Electrical output data**

Specification item	Value	Unit	Condition
Regulation method	Constant Current		
Output voltage	3040	V <sub>dc</sub>	
Output voltage max.	60	V	Peak voltage at open load
Output current	0.6 / 0.75	Α	Manually selectable: 600 or 750mA
Output current tolerance	±8	%	
Output current ripple LF	≤ 3	%	Ripple = peak / average
Output current ripple HF	≤ 15	%	
Output power	1830	w	600mA: 1824W; 750mA: 22.530W

## Electrical data controls input

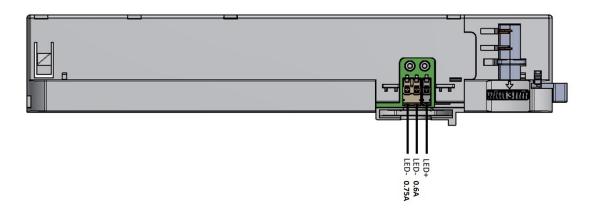
Specification item	Value	Unit	Condition
Control method	Fixed		

## Logistical data

Specification item	Value
Product name	Xitanium 30W/a 0.6/0.75A 40V 3CB 230V
Logistic code 12NC	9290 021 03706
Pieces per box	40

## Wiring & Connections

Specification item	Value	Unit	Condition
Output wire cross-section	0.20.75	mm <sup>2</sup>	Molex 104188, solid wire
	1824	AWG	Molex 104188, solid wire
	0.450.75	mm²	Molex 104188, stranded wire
	2022	AWG	Molex 104188, stranded wire
Output wire strip length	7.58.5	mm	
Maximum cable length	300	mm	Total length of wiring including LED module, one way

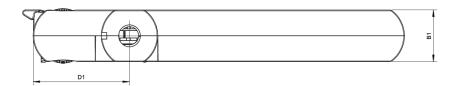


## Insulation

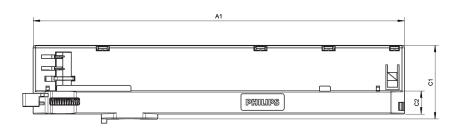
Insulation	Mains	LED
Mains		SELV
LED	SELV	

## Dimensions and weight

Specification item	Value	Unit	Condition
Length (A1)	224	mm	
Width (B1)	31	mm	
Height (C1)	44.4	mm	
Height (C2)	13.9	mm	
Weight	155	gram	







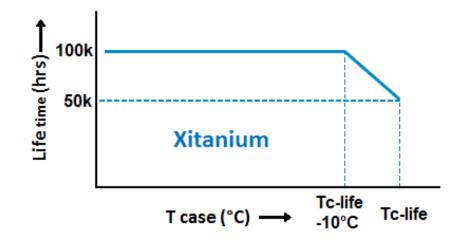
Data Sheet			
Item	Dimension		
A1	224 -/+1.5 mm		
B1	31 -/+1.0 mm		
C1	44.4 -/+1.0 mm		
C2	13.9 -/+0.5 mm		
D1	58.1 -/+1.5 mm		
D2	24.2 -/+0.5 mm		
D3	27.3 -/+0.5 mm		

## 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	75	°C	Measured at T <sub>case</sub> -point
Maximum housing temperature	130	°C	In case of a failure
Relative humidity	1090	%	Non-condensing

## Lifetime

Specification item	Value	Unit	Condition
Driver lifetime	50,000	hours	Measured temperature at $T_{case}$ -point is $T_{case}$ -life.
			Maximum failures = 10%



#### Storage temperature and humidity

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

## **Programmable features**

Specification item	Value	Remark	Condition
Set output current (AOC)	Manual		Manually selectable: 600 or 750mA

#### **Features**

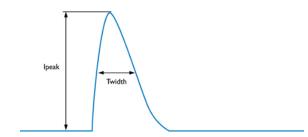
Specification item	Value	Remark	Condition
Open load protection	Yes		Automatic recovering
Short circuit protection	Yes		Automatic recovering
Over power protection	Yes		Automatic recovering
Hot wiring	No		
Suitable for fixtures with protection class	II		per IEC60598

#### **Certificates and standards**

Specification item	Value
Approval marks	CB / CE / CQC / ENEC / RCM / SELV
Ingress Protection classification (IP)	20

#### Inrush current

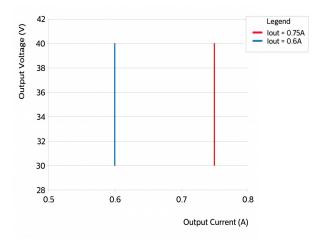
Specification item	Value	Unit	Condition
Inrush current I <sub>peak</sub>	20	Α	Input voltage 230V
Inrush current T <sub>width</sub>	240	μs	Input voltage 230V, measured at 50% I <sub>peak</sub>
Drivers / MCB 16A type B	≤ 28	pcs	Indicative value



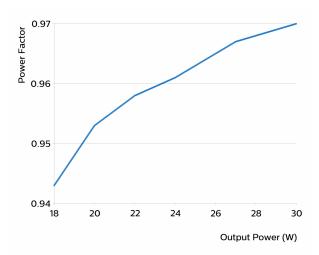
МСВ	Rating	Relative number of LED drivers
В	4A	25%
В	6A	40%
В	10A	63%
В	13A	81%
В	16A	100% (stated in datasheet)
В	20A	125%
В	25A	156%
В	32A	200%
В	40A	250%
С	4A	42%
С	6A	63%
С	10A	104%
С	13A	135%
С	16A	170%
С	20A	208%
С	25A	260%
С	32A	340%
С	40A	415%

## Surge immunity

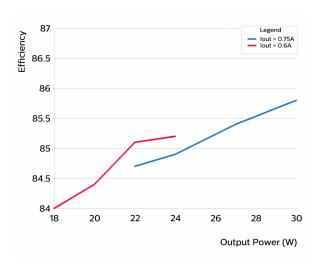
Specification item	Value	Unit	Condition
Mains surge immunity (diff. mode)	1	kV	Acc. IEC61000-4-5. 2 Ohm, 1.2/50us, 8/20us

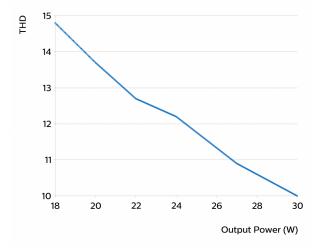


## Power factor versus output power



## Efficiency versus output power







©2019 Signify Holding, IBRS 10461, 5600 VB, NL. All rights reserved.

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: March 28, 2019 v1