



Datasheet

Xitanium non-iso Fixed Output with LEDset

Xitanium 60W 0.08-0.35A 300V 21 230V

9290 016 94406

Xitanium non-isolated Fixed Output drivers stand on three pillars: quality of light, reliability and flexibility

By using Xitanium LED drivers in your luminaires, you can be sure to offer your customers high quality of light without visual flicker and stroboscopic effects. The reliability of your complete lighting system is enhanced as our drivers offer specific features that protect the connected LED module, including reduced ripple current. Finally, application-oriented operating windows offer the flexibility required to provide the stable lumen output and light quality levels that lighting specifiers and architects demand.

Benefits

- High quality of light
- High reliability
- Future-proof flexibility
- Easy design-in due to standard housing dimensions and excellent thermal performance
- Flexible current setting with LEDset

Features

- High efficiency
- Wide operating windows output current can be adjusted via LEDset (resistor)
- Low output ripple current

Application

- Offices
- Industry
- Retail: supermarkets, shopping malls

Electrical input data

Specification item	Value	Unit	Condition
Rated input voltage range	220240	V _{ac}	Nominal range
Rated input voltage	230	V _{ac}	
Rated input frequency range	5060	Hz	Nominal range
Rated input current	0.3	A	@ max output power @ rated input voltage
Rated input power	66	W	@ max output power @ rated input voltage
Power factor	0.98		@ max output power @ rated input voltage
Total harmonic distortion	11	%	@ max output power @ rated input voltage
Efficiency	93	%	@ max output power @ rated input voltage
Rated input voltage DC range	186250	V _{dc}	Nominal range
Input voltage AC range	198264	V _{ac}	Operational range
Input frequency AC range	47.563	Hz	Operational range
Input voltage DC range	168275	V _{dc}	Operational range
Isolation input to output	No		

Electrical output data

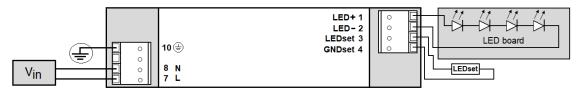
Specification item	Value	Unit	Condition
Regulation method	Constant Current		
Output voltage	100300	V _{dc}	
Output voltage max.	330	V	Maximum output voltage (rms)
Output current	0.080.35	A	Set output current via LEDset
Output current tolerance ±	5	%	
Output current ripple LF	≤ 4	%	Ripple = peak / average, < 3kHz
Output P _{st} ^{LM}	≤ 1		
Output SVM	≤ 0.4		
Output power	1760	W	

Electrical data controls input

Specification item	Value	Unit	Condition
Control method	Fixed		

Wiring and Connections

Specification item	Value	Unit	Туре
Input wire cross-section	0.51.5 / 2016	mm ² / AWG	WAGO744, solid wire
Input wire strip length	89	mm	
Output wire cross-section	0.51.5 / 2016	mm ² / AWG	WAGO744, solid wire
Output wire strip length	89	mm	
Maximum cable length	1.5	m	Total length of wiring including LED module, one way. For longer
			wiring please double check EMI behavior of luminaire.

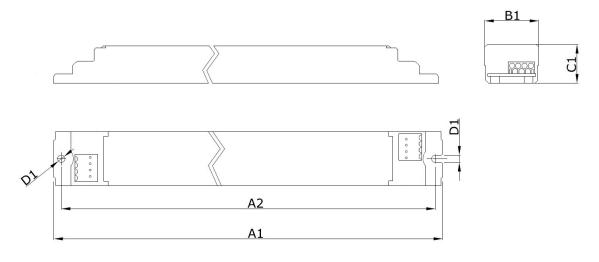


Insulation

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

Dimensions and weight

Specification item	Value	Unit	Tolerance (mm)
Length (A1)	280	mm	
Mounting hole distance (A2)	270	mm	
Width (B1)	30	mm	
Height (C1)	21	mm	
Mounting hole diameter (D1)	4.1	mm	
Weight	187	gram	



Logistical data

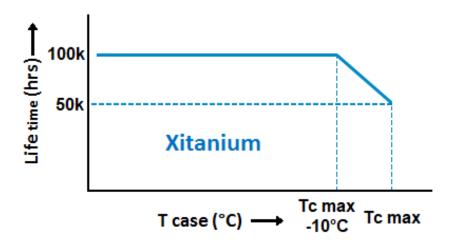
Specification item	Value
Product name	Xitanium 60W 0.08-0.35A 300V 21 230V
EOC	871951425389600
Logistic code 12NC	9290 016 94406
EAN1 (GTIN)	8719514253896
EAN3	8719514253902
Pieces per box	24

Operational temperatures and humidity

Specification item	Value	Unit	Condition
Ambient temperature	-25+50	°C	Higher ambient temperature allowed as long as Tcase-max is not
			exceeded
Tcase-max	75	°C	lifetime 50khrs;
Tcase-life	65	°C	lifetime 100khrs; measured at T _c -point
Maximum housing temperature	110	°C	In case of a failure, inherent by design
Relative humidity	1090	%	Non-condensing

Lifetime

Specification item	Value	Unit	Condition
Driver lifetime	100,000	hours	Measured temperature at Tcase-point is Tcase-life. Maximum
			failures = 10%
Mains switching cycles	> 100,000	switches	See Design-in guide for detailed explanation



Storage temperature and humidity

Specification item	Value	Unit	Condition
Ambient temperature	-40+85	°C	
Relative humidity	595	%	Non-condensing

Programmable features

Specification item	Available	Default setting	Condition
Set Adjustable Output Current (AOC)	LEDset	80 mA	Set the output current via LEDset, do not leave open /
			short-circuit. See Design-In Guide for resistor value table.
DC emergency (DCemDim)	No		Light output is 100% when operated at DC mains

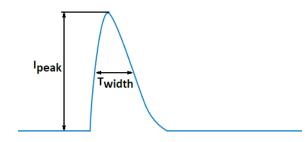
Features

4/7

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 I _{peak}	20	Α	Input voltage 230V
Inrush current T _{width}	284	μs	Input voltage 230V, measured at 50% I _{peak}
Drivers / MCB 16A type B	≤ 23	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%

Driver touch current / protective conductor current

Specification item	Value	Unit	Condition
Typical Protective Conductor Current (ins. Class I)	0.7	mA rms	Acc. IEC60598-1. LED module contribution not included

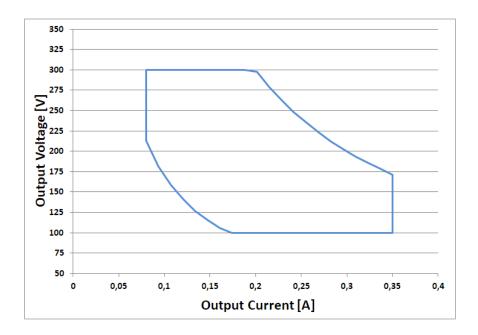
Surge immunity

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

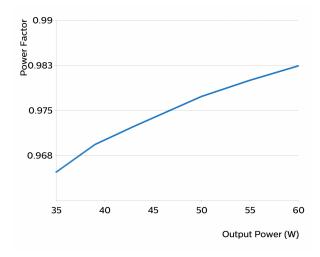
Application Info

Specification item	Value
Approval marks	CCC / CE / EL / ENEC
Ingress Protection classification (IP)	20
Noise and hum dB(A)	20
Application	Indoor Linear
Mounting Type	Built-in

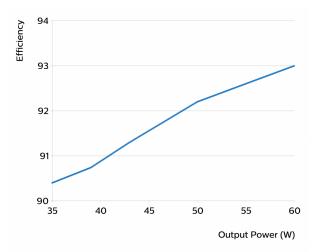
Operating window



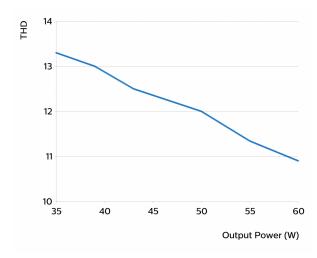
Power factor versus output power



Efficiency versus output power



THD versus output power





© 2020 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: December 15, 2020 v3