



Datasheet

Xitanium non-isolated Fixed Output

Xitanium 60W 0.08-0.35A 300V 16 230V 9290 015 57706

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
- Fast and easy wireless programming with SimpleSet (if applicable)

Features

- High efficiency
- Wide operating windows output current can be adjusted via SimpleSet (NFC) or 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}	Performance range
Rated input voltage	230	V _{ac}	
Rated input frequency range	5060	Hz	Performance 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	0.9		@ rated output power @ rated input voltage
Total harmonic distortion	20	%	@ rated output power @ rated input voltage
Efficiency	92	%	@ max. output power @ rated input voltage
Rated input voltage DC range	186250	V _{dc}	Performance range
Input voltage AC range	202254	V _{ac}	Operational range
Input frequency AC range	47.563	Hz	Operational range
Input voltage DC range	168275	V _{dc}	Operational range
Standby Power	0.3	W	
Isolation input to output	No		

Electrical output data

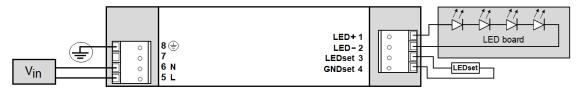
Specification item	Value	Unit	Condition
Regulation method	Constant Current		
Output voltage	100300	V _{dc}	
Output voltage max.	330	V	Maximum output voltage (rms)
Output current	0.080.35	A	
Output current tolerance ±	5	%	
Output current ripple LF	≤ 4	%	Ripple = peak / average, < 3kHz
Output current ripple HF	≤ 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	2	m	Total length of wiring including LED module, one way. For longer
			wiring please double check EMI behavior of luminaire.

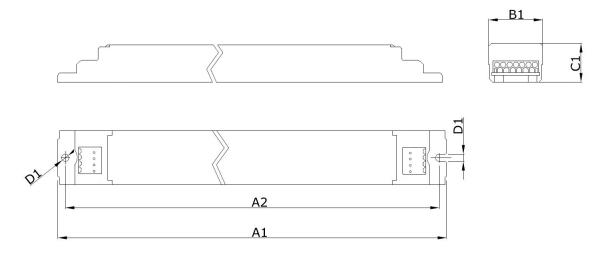


Insulation

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)	16	mm	
Mounting hole diameter (D1)	4.1	mm	
Weight	164	gram	



Logistical data

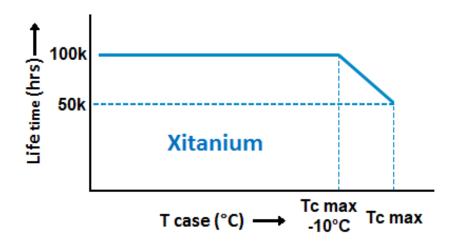
Specification item	Value
Product name	Xitanium 60W 0.08-0.35A 300V 16 230V
EOC	871869670595700
Logistic code 12NC	9290 015 57706
EAN1 (GTIN)	8718696705957
EAN3	8718696705964
Pieces per box	24

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	Maximum temperature measured at T _{case} -point
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

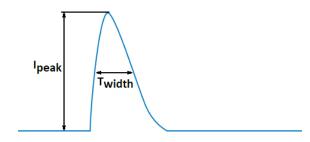
Specification item	Available	Default setting	Condition
Set Adjustable Output Current (AOC)	LEDset	80 mA	Set the output current via LEDset, do not leave open /
			short-circuit. See Design-In Guide for resistor value table.
Constant Light Output (CLO)	No		
Corridor Mode	No		
DC emergency (DCemDim)	No		

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
Energy metering	No	
Diagnostics	No	

Inrush current

Specification item	Value	Unit	Condition
Inrush current I _{peak}	18.1	Α	Input voltage 230V
Inrush current T _{width}	256	μs	Input voltage 230V, measured at 50% I _{peak}
Drivers / MCB 16A type B	≤ 26	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)	0.5	mA rms	Acc. IEC60598-1. LED module contribution not included

Surge immunity

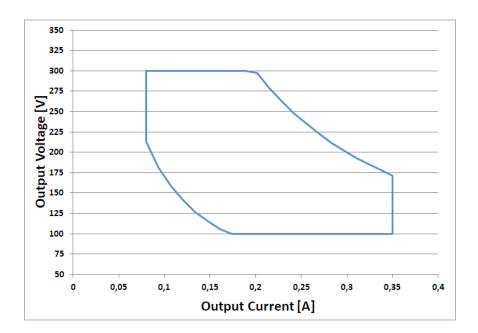
Specification item	Value	Unit	Condition
Mains surge immunity (diff. mode)	1	kV	Acc. IEC61000-4-5. 2 Ohm, 1.2/50us, 8/20us
Mains surge immunity (comm. mode)	2	kV	Acc. IEC61000-4-5. 12 Ohm, 1.2/50us, 8/20us

Application Info

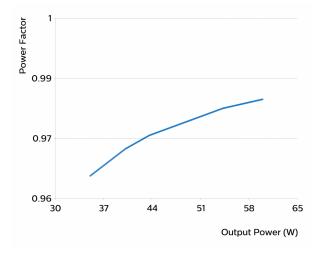
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Specification item	Value
Approval marks	CCC / CE / EL / ENEC
Ingress Protection classification (IP)	20
Application	Indoor Linear
Mounting Type	Built-in

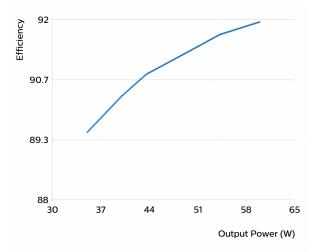
Operating window



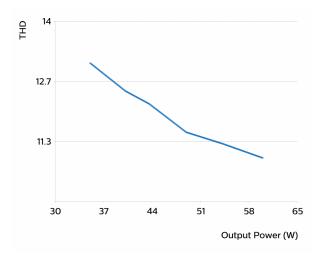
Power factor versus output power



Efficiency versus output power



THD versus output power





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