



Datasheet

Xitanium isolated Fixed Output (LEDset)

Xitanium 36W 0.3-1.0A 54V 230V

9290 016 94106

Xitanium isolated Fixed Output drivers are ideal for Low Voltage (LV) linear systems.

They offer ease of design-in and make the approbation process easier. The Xitanium range is built 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 and thermal de-rating. 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

Features

- High efficiency
- Wide operating windows output current can be adjusted via LEDset (resistor)
- Reduced ripple current for increased reliability
- SELV
- Suitable for Class I and Class II luminaires

Application

- Offices
- Retail: supermarkets, shopping malls

Electrical input data

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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	0.2	A	@ rated output power @ rated input voltage
Rated input power	41	W	@ rated output power @ rated input voltage
Power factor	0.98		@ maximum output power @ rated input voltage
Total harmonic distortion	6	%	@ maximum output power @ rated input voltage
Efficiency	88	%	@ maximum output power @ rated input voltage @ max. lout
Rated input voltage DC range	186250	V _{dc}	Performance 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	SELV		

Electrical output data

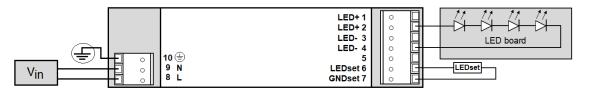
Specification item	Value	Unit	Condition
Regulation method	Constant Current		
Output voltage	2754	V _{dc}	
Output voltage max.	60	V	
Output current	0.31	Α	
Output current tolerance ±	5	%	
Output current ripple LF	≤ 4	%	Ripple = peak / average, < 3kHz
Output current ripple HF	≤ 4	%	
Output P _{st} ^{LM}	≤ 0.5		Within performance window
Output SVM	≤ 1		Within performance window
Output power	1136	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	0.6	m	Total length of wiring including LED module, one way

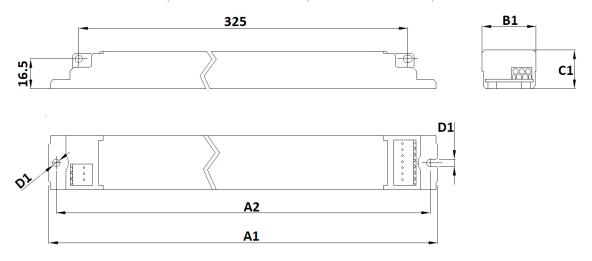


Insulation

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

Dimensions and weight

Specification item	Value	Unit	Tolerance (mm)
Length (A1)	360	mm	
Mounting hole distance (A2)	350	mm	
Width (B1)	30	mm	
Height (C1)	21	mm	
Mounting hole diameter (D1)	4.1	mm	
Weight	250	gram	



Logistical data

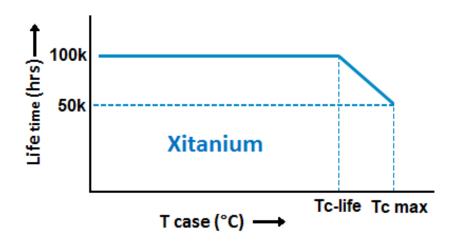
Specification item	Value
Product name	Xitanium 36W 0.3-1.0A 54V 230V
EOC	871869975617800
Logistic code 12NC	9290 016 94106
EAN1 (GTIN)	8718699756178
EAN3 (box)	8718699756185
Pieces per box	24

Operational temperatures and humidity

Specification item	Value	Unit	Condition
Ambient temperature	-20+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	-25+85	°C	
Relative humidity	595	%	Non-condensing

Programmable features

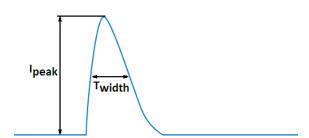
Specification item	Available	Default setting	Condition
Set Adjustable Output Current (AOC)	LEDset	300 mA	Set the output current via LEDset, do not leave open /
			short-circuit. See Design-In Guide for resistor
LED Module Temperature Protection (MTP)	No		
Constant Light Output (CLO)	No		
DC emergency (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	I and II	per IEC60598
Energy metering (DALI part 252)	No	
Diagnostics	No	

Inrush current

Specification item	Value	Unit	Condition
Inrush current	14.1	A	Input voltage 230V
Inrush peak width	240	μs	Input voltage 230 V, measured at 50% height
Drivers / MCB 16A type B	≤ 35	pcs	Indicative value



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

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

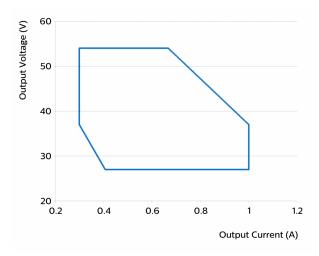
Specification item	Value	Unit	Condition
Mains surge immunity (diff. mode)	1	kV	Acc. IEC61000-4-5. 2 Ohm, 1.2/50us, 8/20us
Mains surge immunity (comm. mode)	2	kV	Acc. IEC61000-4-5. 12 Ohm, 1.2/50us, 8/20us

Application Info

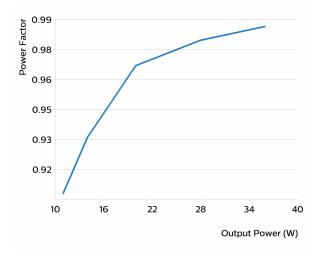
Specification item	Value
Approval marks	CCC / CE / EAC / EL / ENEC / RCM / SELV / TISI / UA
Ingress Protection classification (IP)	20
Application	Indoor Linear
Mounting Type	Built-in

Graphs

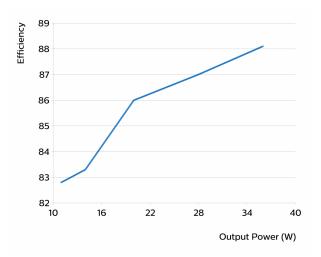
Operating window

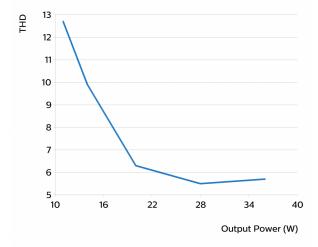


Power factor versus output power



Efficiency versus output power







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