





Datasheet

Xitanium LED drivers - Spot- and downlight Xitanium 34W 0.9/1.05A 32V I 230V

Affordable and reliable LED Drivers

Affordable LED Driver range offering Philips reliability. The Xitanium 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 wattage Drivers that are related to the lumen packages/applications
- Fixed output Drivers
- Independent-version housing design for stand-alone installations

Features

- Small, compact dimensions
- Specific, optimized output current and voltage
- 50,000 hours lifetime
- Fast Time to Market
- Low ripple, low THD

Applications

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

Electrical input data

Specification item	Value	Unit	Condition
Nominal input voltage	220240	V _{ac}	
Nominal input frequency	5060	Hz	
Nominal input current	0.205/0.238	Α	@230Vac @ full load
Input voltage	230	V _{ac}	full load
Nominal input power	43.8/51.2	W	@230Vac @ full load
Power factor	≥ 0.9		
Total harmonic distortion	≤ 10	%	@230Vac @ full load
Efficiency	85	%	@230Vac @ full load
Input voltage AC	202254	V _{ac}	Performance range
Input frequency AC	47.563	Hz	Maximum permissible range

Electrical output data

Specification item	Value	Unit	Condition
Regulation method	Constant Current		
Output voltage	2432	V_{dc}	
Output voltage max.	60	٧	Peak voltage at open load
Output current	0.9/1.05	Α	Full output current setting
Output current tolerance	± 8	%	
Output current ripple LF	≤ 4	%	Ripple = peak / average
Output current ripple HF	≤ 15	%	
Output power	22.628.8/25.233.6	W	Full load

Electrical data controls input

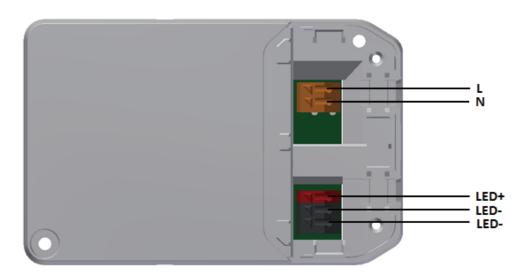
Specification item	Value	Unit	Condition
Control method	Fixed		

Logistical data

Specification item	Value
Product name	Xitanium 34W 0.9/1.05A 32V I 230V
Order code	
Logistic code 12NC	9290 014 12980
EAN3	
Pieces per box	32

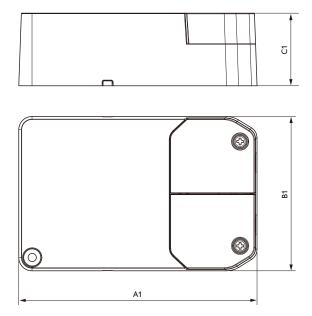
Wiring & Connections

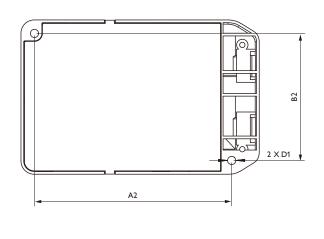
Specification item	Value	Unit	Condition
Input wire cross-section	0.21.5	mm ²	WAGO250 (3.5 mm), solid wire
	1624	AWG	WAGO250 (3.5 mm), solid wire
Input wire strip length	8.59.5	mm	
Output wire cross-section	0.21.5	mm ²	WAGO250 (3.5 mm), solid wire
	1624	AWG	WAGO250 (3.5 mm), solid wire
Output wire strip length	8.59.5	mm	
Maximum cable length	600	mm	Total length of wiring including LED module, one way



Dimensions and weight

Specification item	Value	Unit	Condition
Length (A1)	105	mm	
Width (B1)	68	mm	
Height (C1)	32	mm	
Fixing hole diameter (D1)	3.6	mm	
Fixing hole distance (A2)	87	mm	
Weight	275	gram	





Operational temperatures and humidity

Specification item	Value	Unit	Condition
Ambient temperature	0+50	°C	
Tcase-max	80	°C	Maximum temperature measured at T _c -point
Tcase-life	70	°C	Measured at Tc-point
Maximum housing temperature	130	°C	In case of a failure
Relative humidity	1090	%	Non-condensing

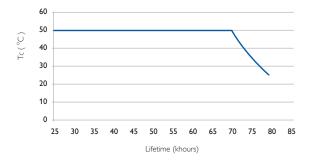
Storage temperature and humidity

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

Lifetime

Specification item	Value	Unit	Condition
Driver lifetime	50,000	hours	Measured temperature at T_c -point is T_{case} -life.
			Maximum failures = 10%
Driver lifetime	30,000	hours	Measured temperature at T_c -point is T_{case} -max
Driver medine	30,000	nour 3	r leasured temperature at 12-point is

Lifetime vs Tcase



Programmable features

Specification item	Value	Remark	Condition
et output current (AOC)	No	See Design-in guide	
		Default output curr	rent: ≤ 0.9/1.05A
D module temperature derating (MTP)	No		
onstant Lumen Over Lifetime (CLO)	No		
emergency dimming (DCemDIM)	No		Current output decreased to 15%
orridor mode	No		
ergy metering	No		
gnostics	No		

Features

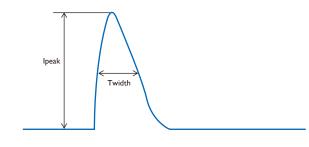
Specification item	Value	Remark	Condition
Open load protection	Yes		
Short circuit protection	Yes		Automatic recovering
Over power protection	Yes		Automatic recovering
Hot wiring	No		
Suitable for fixtures with protection class	П		

Certificates and standards

Specification item	Value
Approval marks	CCC / CE / ENEC / RCM / TIS
Ingress Protection classification	20

Inrush current

Specification item	Value	Unit	Condition
Inrush current I _{peak}	17	A	Input voltage 230V
Inrush current T _{width}	250	μs	Input voltage 230V, measured at 50% I _{peak}
Drivers / MCB 16A type B	≤ 28	pcs	



МСВ	Rating	Relative number of LED drivers
В	10A	63%
В	13A	81%
В	16A	100% (stated in datasheet)
В	20A	125%
В	25A	156%
С	10A	104%
C C	13A	135%
С	16A	170%
	20A	208%
С	25A	260%

Driver touch current

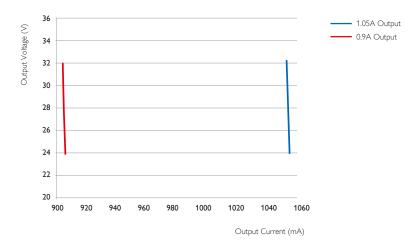
Specification item	Value	Unit	Condition
Typical touch current	0.7	mA peak	Acc. IEC61347-1. LED module contribution not
	'		included

Surge immunity

Specification item	Value	Unit	Condition
Mains surge immunity (diff. mode)	1	kV	
Mains surge immunity (comm. mode)	2	kV	

Graphs

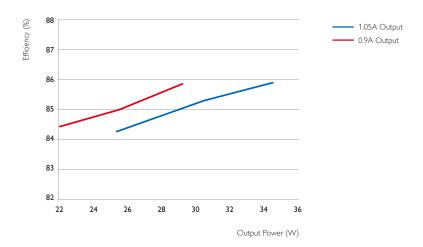
Operating window



Power factor versus output power



Efficiency versus output power





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