





Datasheet

CertaDrive

Xitanium 32W 0.7/0.75A 42V I 230V

Affordable and reliable LED Drivers

Affordable LED Driver range offering Philips reliability. The CertaDrive 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

- High reliability
- Luminaire design flexibility to keep stable/constant
- Lumen output and light quality levels
- Fast Time to Market
- One supplier for professional general lighting LED Drivers
- Affordable LED Drivers

Application

- 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}	performance range
Nominal input frequency	5060	Hz	
Nominal input current	0.167	A	@230V @ full load
Input voltage	230	Vac	
Nominal input power	35.2	W	@230V @ full load
Power factor	>= 0.9		@ full load. See graph.
Total harmonic distortion	<= 15	%	@ full load. See graph.
Efficiency	85	%	@230V @ full load
Input voltage AC	202254	Vac	Operational range
Input frequency AC	47.563	Hz	Maximum permissible range

Electrical output data

Specification item	Value	Unit	Condition
Regulation method	Constant Current		
Output voltage	3242	V _{dc}	
Output voltage max.	60	V	Peak voltage at open load
Output current	0.70.75	A	Full output current setting
Output current tolerance	± 8	%	
Output current ripple LF	<= 4	%	Ripple = peak / average
Output current ripple HF	<= 15	%	
Output power	2330	w	Full output

Electrical data controls input

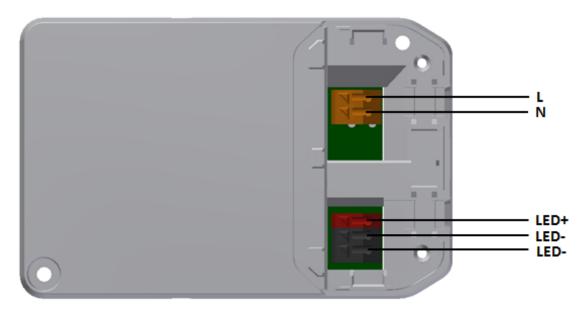
Specification item	Value	Unit	Condition
Control method	Fixed		

Logistical data

Specification item	Value
Product name	Xitanium 32W 0.7/0.75A 42V I 230V
Order code	
Logistic code 12NC	9290 014 10480
EAN3	
Pieces per box	32

Wiring & Connections

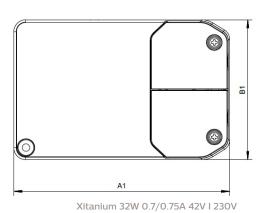
Specification item	Value	Unit	Condition
Input wire cross-section	0.21.5	mm ²	WAGO250 (3.5 mm), solid wire
	1624	AWG	WAGO250 (3.5 mm), solid wire
Input wire strip length	8.59.5	mm	
Output wire cross-section	0.21.5	mm ²	WAGO250 (3.5 mm), solid wire
	1624	AWG	WAGO250 (3.5 mm), solid wire
Output wire strip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

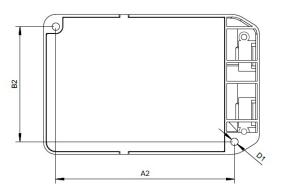


Dimensions and weight

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	260	gram	







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Operational temperatures and humidity

Specification item	Value	Unit	Condition
Ambient temperature	+0+50	°C	
Tcase-max	75	°C	Maximum temperature measured at T _c -point
Tcase-life	65	°C	Measured at T _c -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%

Programmable features

Specification item	Value	Remark	Condition
Set output current (AOC)	No	See Design-in guide.	Default output current: <= 700 mA
LED module temperature derating (MTP)	No		
Constant Lumen Over Lifetime (CLO)	No		
DC emergency dimming (DCemDIM)	No		
Corridor mode	No		
Energy metering	No		
Diagnostics	No		

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	11		per IEC60598

Certificates and standards

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

Inrush current

Specification item	Value	Unit		Condition
Inrush current I _{peak}	17	A		Input voltage 230V
Inrush current T _{width}	urrent T _{width} 250 µs			Input voltage 230V, measured at 50% I _{peak}
Drivers / MCB 16A type B	<= 28	pcs		
		MCI	B Rating	Relative number of LED drivers
T /\		В	10A	63%
		В	13A	81%
Ipeak	\backslash	В	16A	100% (stated in datasheet)
Twidth	*	В	20A	125%
		В	25A	156%
		С	10A	104%
Ļ		С	13A	135%

с

С

С

16A

20A

25A

170%

208%

260%

Driver touch current

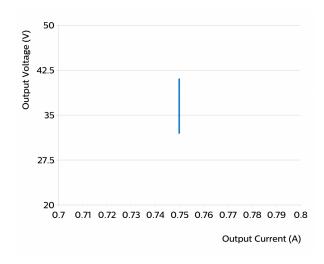
Specification item	Value	Unit	Condition
Typical touch current	0.7	mA peak	Acc. IEC61347-1. LED module contribution not included

Surge immunity

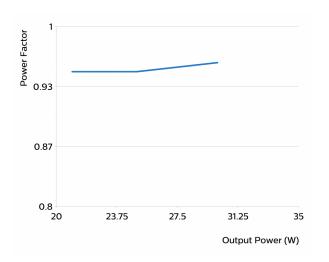
Specification item	Value	Unit	Condition
Mains surge immunity (diff. mode)	1	kV	Acc. IEC61000-4-5. 2 Ohm, 1.2/50us, 8/20us
Mains surge immunity (comm. mode)	2	kV	Acc. IEC61000-4-5. 12 Ohm, 1.2/50us, 8/20us

Graphs

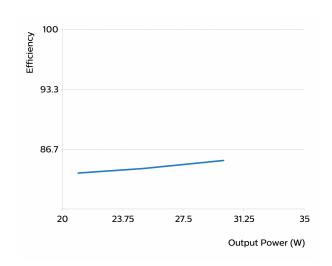
Operating window

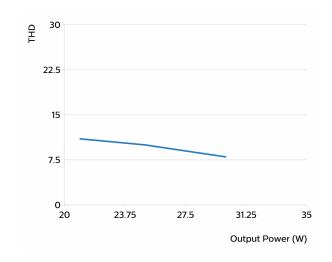


Power factor versus output power



Efficiency versus output power







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