

Datasheet

LED drivers - spot- and downlight Casambi

Xitanium 36W/m 0.3-1.05A 54V CD 230V 9290 021 07006

Enabling future-proof LED technology

Xitanium LED drivers are designed to operate LED solutions for general lighting applications.

Benefits

- High reliability underpinned by 5 year warranty
- Application oriented specifications make it suitable for general lighting in retail/office applications
- Mini form factor enabling built in or independent use in spots, downlights or panels
- Enables wireless light control in existing lighting installation

Features

- Large operating window suitable for mainstream CoBs or customized PCB designs
- $\bullet \ \mathsf{Easy} \ \mathsf{configuration} \ \mathsf{with} \ \mathsf{SimpleSet}$
- Compatible with Casambi ecosystem
- Standalone use with add on strain relief caps

Application

- Retail
- Hospitality
- Office

Electrical input data

	I	ı	
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	@ full output power @ rated input voltage
Max. input current	0.22	A	@ rated output power @ minimum performance input voltage
Rated input power	41	W	@ full 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	90	%	@ full output power @ rated input voltage
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
Standby Power	0.5	W	
Isolation input to output	SELV		

Electrical output data

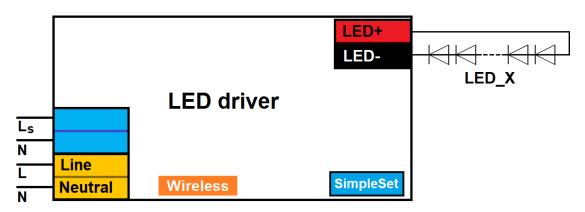
Specification item	Value	Unit	Condition
Regulation method	Constant Current		
Output voltage	2454	V _{dc}	
Output voltage max.	60	V	Maximum output voltage (rms)
Output current	0.31.05	A	
Output current tolerance ±	5	%	
Output current ripple LF	≤ 4	%	Ripple = peak / average, < 3kHz
Output P _{st} ^{LM}	≤ 1		
Output SVM	≤ 0.4		
Output power	1136	W	

Electrical data controls input

Specification item	Value	Unit	Condition
Control method	Push Input, Wireless		Driver is Casambi ready, controlled by app. Push input control by
			mains.
Dimming range	1100	%	Wireless dimming via the Casambi app
Isolation controls input to output	Basic		acc. IEC61347-1

Wiring and Connections

Specification item	Value	Unit	Туре
Input wire cross-section	0.51.5 / 2016	mm ² / AWG	Type250, solid / stranded wire
Input wire strip length	8.59.5	mm	
Output wire cross-section	0.51.5 / 2016	mm ² / AWG	Type250, solid / stranded wire
Output wire strip length	8.59.5	mm	
Maximum cable length	0.6	m	Total length of wiring including LED module, one way

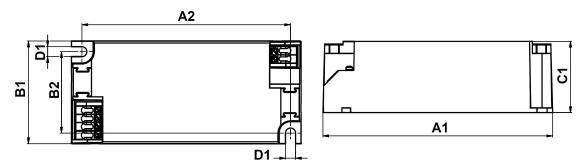


Insulation

Insulation per IEC61347-1	Input	Output	Ls (Push input)
Input		SELV	Basic
Output	SELV		SELV
Ls (Push input)	Basic	SELV	

Dimensions and weight

Specification item	Value	Unit	Tolerance (mm)
Length (A1)	97.2	mm	
Mounting hole distance (A2)	88.5	mm	
Width (B1)	43	mm	
Height (C1)	30	mm	
Mounting hole diameter (D1)	4.2	mm	
Weight	115	gram	



Logistical data

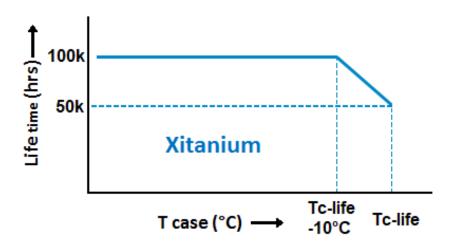
Specification item	Value
Product name	Xitanium 36W/m 0.3-1.05A 54V CD 230V
EOC	871869973406000
Logistic code 12NC	9290 021 07006
EAN1 (GTIN)	8718699734060
EAN3	8718699734077
Pieces per box	20
Strain Relief 12NC	929001430906

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	80	°C	Maximum temperature measured at T _{case} -point
Tcase-life	80	°C	Measured at T _{case} -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	50,000	hours	Measured temperature at Tcase-point is Tcase-life. Maximum
			failures = 10%



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)	SimpleSet	700 mA	
DC emergency (DCemDim)	No		Light output is 100%
OEM Write Protection (OWP)	Yes	OFF	
Luminaire Info	Yes	_	

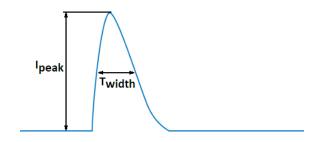
Features

5/8

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

Inrush current

Specification item	Value	Unit	Condition
Inrush current I _{peak}	9	A	Input voltage 230V
Inrush current T _{width}	22	μs	Input voltage 230V, measured at 50% I _{peak}
Drivers / MCB 16A type B	≤ 34	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 Touch Current (ins. Class II)	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
Control surge immunity (diff. mode)	1	kV	Acc. IEC61000-4-5. 2 Ohm, 1.2/50us, 8/20us
Control surge immunity (comm. mode)	2	kV	Acc. IEC61000-4-5. 12 Ohm, 1.2/50us, 8/20us

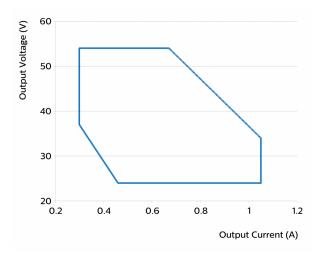
Application Info

6/8

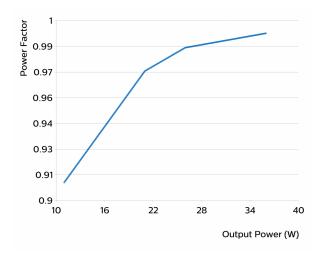
Specification item	Value
Approval marks	CCC / CE / EAC / EL / ENEC / RCM / SELV
Ingress Protection classification (IP)	20
Application	Indoor Point
Mounting Type	Built-in / Independent

Graphs

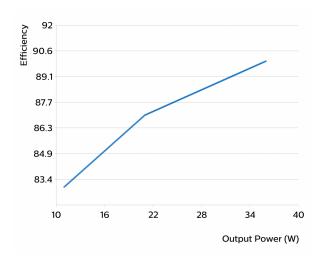
Operating window



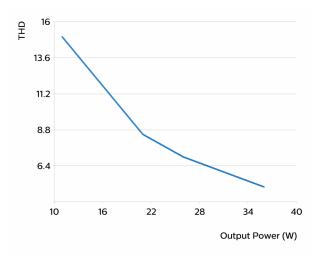
Power factor versus output power



Efficiency versus output power



THD versus output power



Notes

To configure and control this driver download the Casambi app.

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Date of release: December 9, 2020 v3