



## Datasheet

# LED drivers - track Casambi

## Xitanium 20W/a 0.15-0.5A 54V CD 3CW 230V

## 9290 021 07306

#### 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 applications
- Miniaturized design
- Enables wireless light control in existing track lighting installation

#### Features

- Large operating window suitable for mainstream CoBs
- Easy configuration with SimpleSet
- Compatible with Casambi ecosystem
- 3 Circuit track compatible design
- Black and White housing options

#### Application

- Retail
- Hospitality

#### Electrical input data

Specification item	Value	Unit	Condition
Rated input voltage range	220240	V <sub>ac</sub>	Performance range
Rated input voltage	230	V <sub>ac</sub>	
Rated input frequency range	5060	Hz	Performance range
Rated input current	0.1	A	@ rated output power @ rated input voltage
Max. input current	0.12	Α	@ rated output power @ minimum performance input voltage
Rated input power	23	w	@ rated 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	86	%	@ rated output power @ rated input voltage
Input voltage AC range	198264	V <sub>ac</sub>	Operational range
Input frequency AC range	4566	Hz	Operational range
Isolation input to output	SELV		

### Electrical output data

Specification item	Value	Unit	Condition
Regulation method	Constant Current		
Output voltage	2454	V <sub>dc</sub>	
Output voltage max.	60	V	Maximum output voltage (rms) (no load)
Output current	0.150.5	A	AOC via SimpleSet
Output current tolerance ±	5	%	
Output current ripple LF	≤ 4	%	Ripple = peak / average, < 3kHz
Output power	620	w	

## Electrical data controls input

Specification item	Value	Unit	Condition
Control method	Wireless		Driver is Casambi ready, controlled by app.
Dimming range	1100	%	Wireless dimming via the Casambi app

### Wiring and Connections

Specification item	Value	Unit	Туре
Output wire cross-section	0.20.5 / 2420	mm <sup>2</sup> / AWG	WAGO250 (pitch 2.5 mm), solid wire
Output wire strip length	8.59.5	mm	
Maximum cable length	0.2	m	Total length of wiring including LED module, one way



#### Insulation

Insulation per IEC61347-1	Input	Output
Input		SELV
Output	SELV	

## Dimensions and weight

Specification item	Value	Unit	Tolerance (mm)
Length (A1)	234	mm	
Mounting hole distance (A2)	138	mm	
Width (B1)	32	mm	
Height (C1)	43.8	mm	
Height (C2)	13.7	mm	
Mounting hole diameter (D1)	27.3	mm	
Mounting hole diameter (D2)	24.4	mm	
Weight	155	gram	
Housing color	White (RAL 9010)		



## Logistical data

Specification item	Value
Product name	Xitanium 20W/a 0.15-0.5A 54V CD 3CW 230V
EOC	871869973412100
Logistic code 12NC	9290 021 07306
EAN1 (GTIN)	8718699734121
EAN3	8718699734138
Pieces per box	40

## Operational temperatures and humidity

Specification item	Value	Unit	Condition
Ambient temperature	-20+40	°C	Higher ambient temperature allowed as long as Tcase-max is not
			exceeded
Tcase-max	70	°C	Maximum temperature measured at T <sub>case</sub> -point
Tcase-life	70	°C	Measured at T <sub>case</sub> -point
Maximum housing temperature	110	°C	In case of a failure, inherent by design
Relative humidity	1090	%	Non-condensing

#### Lifetime



### 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	150 mA	AOC via SimpleSet
OEM Write Protection (OWP)	Yes	OFF	
Luminaire Info	Yes	-	

#### 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	11	per IEC60598

#### Inrush current

Specification item		Value Unit		Condition		
Inrush current I <sub>peak</sub>		3.7	A		Input voltage 230V	
Inrush current T <sub>width</sub>		27	μs			Input voltage 230V, measured at 50% $I_{peak}$
Drivers / MCB 16A type B		≤ 28	pcs			Indicative value
. <u>.</u>				МСВ	Rating	Relative number of LED drivers
Ī	$\land$			В	4A	25%
				В	6A	40%
Inceste	$  \rangle$			В	10A	63%
lpeak	Twidth			В	13A	81%
	·wiath			В	16A	100% (stated in datasheet)
				В	20A	125%
<del> </del>			_	В	25A	156%
				В	32A	200%
				В	40A	250%
				с	4A	42%
				с	6A	63%
				с	10A	104%
				с	13A	135%
				с	16A	170%
					1	

## 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

С

С

С

С

20A

25A

32A

40A

208%

260%

340%

415%

### 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	CE / EAC / ENEC / RCM / SELV
Ingress Protection classification (IP)	20
Application	Indoor Point
Mounting Type	Track mounting

#### Graphs

## Operating window



#### Power factor versus output power



## Efficiency versus output power





#### Notes

To configure and control this driver download the Casambi app.

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