



Datasheet

Xitanium track adaptor drivers (3C)

Xitanium 42W/a 0.15-1.05A 42V MC 3CW 9290 028 47406

Xitanium 42W/a 0.15-1.05A 42V MC 3CB 9290 028 51206

Xitanium 42W/a 0.15-1.05A 42V MC 3CG 9290 028 51306

Enabling simple, cost effective wireless lighting system

Xitanium track wireless LED drivers are designed to operate LED solutions for general lighting applications. They enable simple, cost effective wireless lighting system for energy saving and comfort. Advanced design of the track wireless drivers helps to build a simple, scalable and standardized connected lighting with different functionalities from simple wireless dimming to cloud based operations and integration with gateways.

Wireless track drivers can be configured via smart devices with MasterConnect app as standalone or in a mesh network. With Xitanium LED drivers, flexibility in luminaire design is assured thanks to the Adjustable Output Current (AOC). Application-oriented operating windows offer stable lumen output and light quality levels that specifiers and architects demand. The adjustable output current also enables operation of various LED PCB solutions from different manufacturers.

Benefits

- Enabling simple, scalable and standardized connected lighting system
- High reliability underpinned by 5-year warranty
- Lower installation cost for lighting control
- Future-proof flexibility -application-oriented operating windows enable LED generation and complexity management
- Wide range of use cases: From standalone to cloud based / gateway operations

Features

- Compatible with Zigbee wireless protocols
- Operating windows With SimpleSet feature, output current can be adjusted via the Philips MultiOne configurator
- Wide operating window: With extended operating window, availability of a wide output current from 0.15A to 1.05A that also helps complexity management
- Wide range of power ratings
- Traditional Mini design which can be used both as a built-in driver and an independent driver with add on caps

Application

- Retail
- Hospitality
- Office

Electrical input data

Specification item	Value	Unit	Condition
Rated input voltage range	220240	Vac	Performance range
Rated input voltage	230	Vac	
Rated input frequency range	5060	Hz	Performance range
Rated input current	0.22	А	@ full output power @ rated input voltage
Max. input current	0.25	А	@ rated output power @ minimum performance input voltage
Rated input power	50	W	@ rated output power @ rated input voltage
Power factor	0.9		@ full output power @ rated input voltage
Total harmonic distortion	20	%	@ rated output power @ rated input voltage
Efficiency	87	%	@ rated output power @ rated input voltage @ max. Uout
Input voltage AC range	198264	Vac	Safety operational range
Input frequency AC range	47.563	Hz	Safety operational range
Standby Power	0.42	W	
Isolation input to output	SELV		

Electrical output data

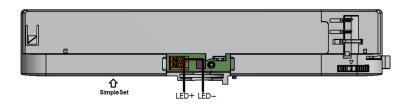
Specification item	Value	Unit	Condition
Regulation method	Constant Current		
Output voltage	1048	V _{dc}	
Output voltage max.	60	V	Maximum output voltage (rms)
Output current	0.151.05	А	
Output current tolerance ±	5	%	
Output current ripple LF	≤ 4	%	Ripple = peak / average, < 3kHz
Minimum output current	7	mA	
Output P _{st} ^{LM}	≤ 1	%	Within entire operating window
Output SVM	≤ 0.4		Within entire operating window
Output power	1042	W	

Electrical data controls input

Specification item	Value	Unit	Condition
Control method	Wireless BLE,		Set output current via SimpleSet (AOC)
	Wireless Zigbee		

Wiring and Connections

Specification item	Value	Unit	Туре
Output wire cross-section	0.51.5 / 2016	mm ² / AWG	Changhong250, solid / stranded wire
Output wire strip length	7.58.5	mm	
Maximum cable length	0.3	m	Total length of wiring including LED module, one way



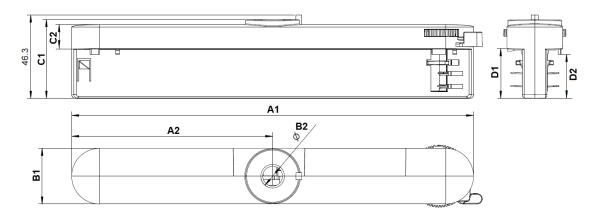
Insulation

3/8

Insulation per IEC61347-1	Input	Output
Input		SELV
Output	SELV	

Dimensions and weight

Specification item	Value	Unit	Tolerance (mm)
Length (A1)	224	mm	
Mounting hole distance (A2)	112	mm	
Width (B1)	31	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	160	gram	
Housing color	White/Black/Grey		



Logistical data

Specification item	Value
Product name	Xitanium 42W/a 0.15-1.05A 42V MC 3CW
Logistic code 12NC	9290 028 47406
Pieces per box	40

Specification item	Value
Product name	Xitanium 42W/a 0.15-1.05A 42V MC 3CB
Logistic code 12NC	9290 028 51206
Pieces per box	40

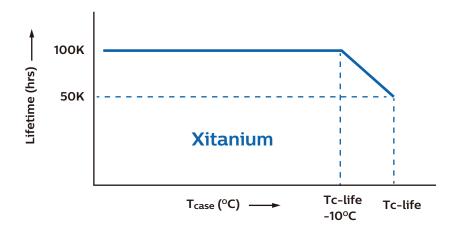
Specification item	Value
Product name	Xitanium 42W/a 0.15-1.05A 42V MC 3CG
Logistic code 12NC	9290 028 51306
Pieces per box	40

Operational temperatures and humidity

Specification item	Value	Unit	Condition
Ambient temperature	-20+35		Higher ambient temperature allowed as long as
			T _{case} -max is not exceeded
Tcase-max	80		Maximum temperature measured at Tcase -point
Tcase-life	80		Measured at Tcase -point
Maximum housing temperature	130		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%
			Guaranteed within performance window



Storage temperature and humidity

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

Programmable features

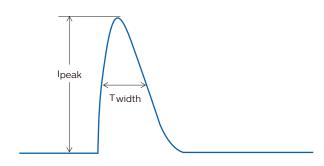
Specification item	Available	Default setting	Condition
Set output current (AOC)		1050 mA	
Adjustable Light Output (ALO)	Yes	OFF	
Adjustable Light Output (ALO) min level	Yes		
Constant Light Output (CLO)	Yes	OFF	
Touch & Dim (TD)	No		
Corridor mode	No		
OEM Write Protection (OWP)	Yes	OFF	
Luminaire Info (DALI part 251)	Yes	-	
Tx Power	Yes	8 dBm	

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	per IEC60598

Inrush current

Specification item	Value	Unit	Condition
Inrush current I peak	8.07	А	Input voltage 230V
Inrush current T _{width}	31	μs	Input voltage 230V, measured at 50% I _{peak}
Drivers / MCB 16A type B	≤ 24	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%

Surge immunity

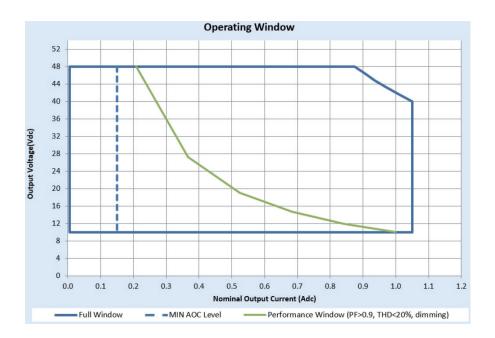
Specification item	Value	Unit	Condition
Mains surge immunity (diff. mode)	1	kV	Acc. IEC61000-4-5. 2 Ohm, 1.2/50us, 8/20us
Mains surge immunity (comm. mode)	2	kV	Acc. IEC61000-4-5. 12 Ohm, 1.2/50us, 8/20us

Application Info

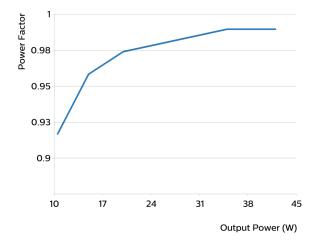
Specification item	Value
Approval marks	CE / CQC / ENEC / RCM / SELV / SRRC
Ingress Protection classification (IP)	20
Application	Indoor Point
Mounting Type	Track mounting

Graphs

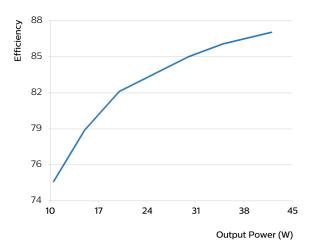
Operating window



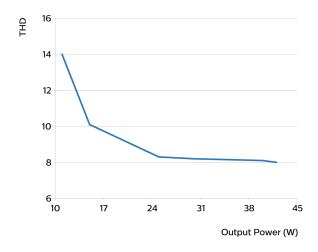
Power factor versus output power



Efficiency versus output power



THD versus output power



Notes

The adapter is compatible with Global Trac Pro, Stucchi OneTrack 3 Circuit tracks. All specification are guaranteed within the performance window.



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