

Datasheet

Xitanium Spot / Downlight LED Drivers Single Current

Xitanium 21W/m 0.7A 30V SC 230V 9290 021 13306

Single current LED drivers for enhanced lighting performance

Reliable and cost effective Xitanium single current drivers enable luminaires to deliver high quality light over an industry standard lifetime of 50,000 hours. Specifically designed with low ripple current to address luminaire flickering issues - making this optimal for camera, scanner, and barcode operation. These drivers provide assured reliability, safety, and long-term energy savings.

Benefits

- Designed to operate solutions based on Chip On Board (COB) or mid-power LEDs
- Various power wattage Drivers that are related to the lumen packages/applications
- Independent-version housing design for stand-alone installations

Features

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

Application

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

Electrical input data

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	0.11	A	@ rated output power @ rated input voltage
Rated input power	25	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 _{ac}	Safety operational range
Input frequency AC range	47.563	Hz	Safety operational range
Standby Power	0.3	w	
Isolation input to output	SELV		

Electrical output data

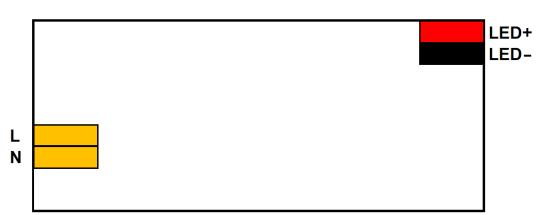
Specification item	Value	Unit	Condition
Regulation method	Constant Current		
Output voltage	2030	V _{dc}	-10% operational tolerance on the minimum output voltage
Output voltage max.	60	V	Maximum output voltage (rms)
Output current	0.7	A	
Output current tolerance ±	8	%	
Output current ripple LF	≤ 4	%	Ripple = peak / average, < 3kHz
Output P _{st} ^{LM}	≤ 1		
Output SVM	≤ 0.4		
Output power	1421	W	

Electrical data controls input

Specification item	Value	Unit	Condition
Control method	Fixed		

Wiring and Connections

Specification item	Value	Unit	Туре
nput wire cross-section	0.51.5 / 2016	mm ² / AWG	Type250, solid / stranded wire
nput wire strip length	8.59.5	mm	
nput wire cross-section	0.751.5 / 1816	mm ² / AWG	Type250 (Independent), solid / stranded wire
nput 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	
Output wire cross-section	0.751.5 / 1816	mm ² / AWG	Type250 (Independent), solid / stranded wire
Output wire strip length	8.59.5	mm	
Aaximum cable length	0.6	m	Total length of wiring including LED module, one way

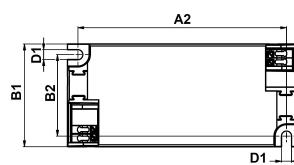


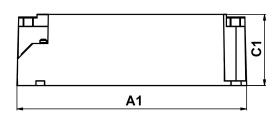
Insulation

Insulation per IEC61347-1	Input	Output
Input		SELV
Output	SELV	

Dimensions and weight

Specification item	Value	Unit	Tolerance (mm)
Length (A1)	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	60	gram	





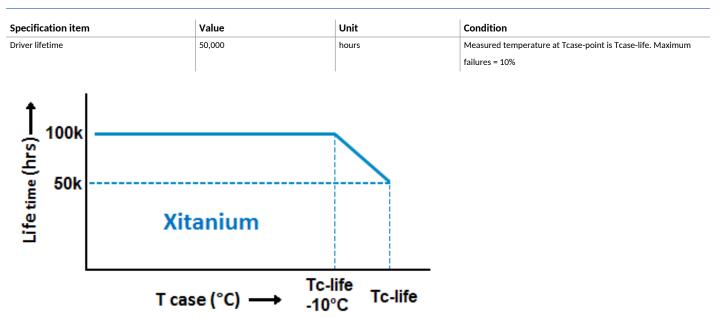
Logistical data

Specification item	Value
Product name	Xitanium 21W/m 0.7A 30V SC 230V
EOC	871869970215100
Logistic code 12NC	9290 021 13306
EAN1 (GTIN)	8718699702151
EAN3	8718699702168
Pieces per box	50

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	75	°C	Maximum temperature measured at T_{case} -point
Tcase-life	75	°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



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)	No	700 mA	Fixed output current
Adjustable Light Output (ALO)	No		
DC emergency (DCemDim)	No		

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 and II	per IEC60598

Inrush current

specification item	Value	Unit		Condition
rush current I _{peak}	9.8	A		Input voltage 230V
nrush current T _{width}	204	μs		Input voltage 230V, measured at 50% I _{peak}
Drivers / MCB 16A type B	≤ 66	pcs		Indicative value
·		МСВ	Rating	Relative number of LED drivers
		В	4A	25%
		В	6A	40%
		В	10A	63%
lpeak Twidth		В	13A	81%
width		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%

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

c c

С

25A

32A

40A

260% 340%

415%

Surge immunity

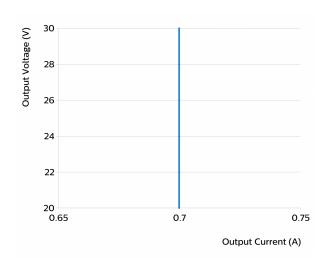
Specification item	Value	Unit	Condition
Mains surge immunity (diff. mode)	1	kV	Acc. IEC61000-4-5. 2 Ohm, 1.2/50us, 8/20us
Mains surge immunity (comm. mode)	2	kV	Acc. IEC61000-4-5. 12 Ohm, 1.2/50us, 8/20us

Application Info

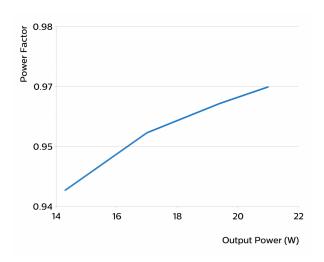
Specification item	Value
Approval marks	CCC / CE / EAC / ENEC / RCM / SELV / TISI / UA
Ingress Protection classification (IP)	20
Noise and hum dB(A)	20
Application	Indoor Point
Mounting Type	Built-in / Independent

Graphs

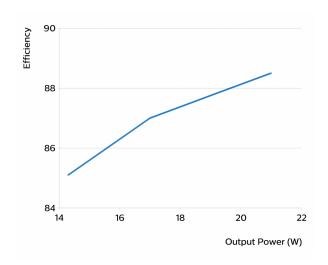
Operating window

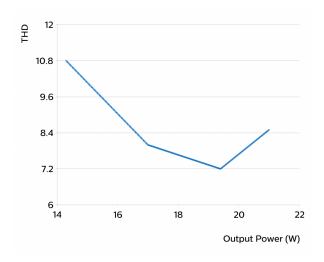


Power factor versus output power



Efficiency versus output power







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