



Datasheet

Xitanium Spot / Downlight LED Drivers Single Current

Xitanium 34W/m 0.8A 42V SC 230V 9290 021 05206

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

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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	0.18	A	@ rated output power @ rated input voltage
Rated input power	39	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	89	%	@ 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
Specification item	value	Oilit	Condition
Regulation method	Constant Current		
Output voltage	3042	V _{dc}	-10% operational tolerance on the minimum output voltage
Output voltage max.	60	V	Maximum output voltage (rms)
Output current	0.8	Α	
Output current tolerance ±	8	%	
Output current ripple LF	≤ 4	%	Ripple = peak / average, < 3kHz
Output P _{st} ^{LM}	≤ 1		
Output SVM	≤ 0.4		
Output power	2434	W	

Electrical data controls input

Specification item	Value	Unit	Condition
Control method	Fixed		

Wiring and Connections

Specification item	Value	Unit	Туре
Input wire cross-section	0.51.5 / 2016	mm² / AWG	Type250, solid / stranded wire
Input wire strip length	8.59.5	mm	
Input wire cross-section	0.751.5 / 1816	mm² / AWG	Type250 (Independent), 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	
Output wire cross-section	0.751.5 / 1816	mm ² / AWG	Type250 (Independent), 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

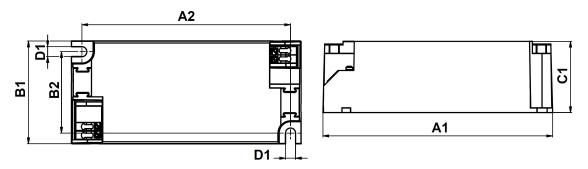


Insulation

Insulation per IEC61347-1	Input	Output
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	80	gram	



Logistical data

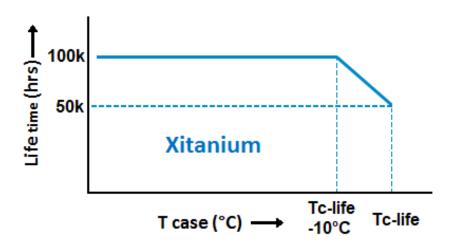
Specification item	Value
Product name	Xitanium 34W/m 0.8A 42V SC 230V
EOC	871869970225000
Logistic code 12NC	9290 021 05206
EAN1 (GTIN)	8718699702250
EAN3	8718699702267
Pieces per box	50

Operational temperatures and humidity

Specification item	Value	Unit	Condition
Ambient temperature	-20+45	°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

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

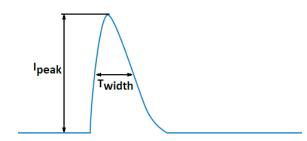
Specification item	Available	Default setting	Condition
Set Adjustable Output Current (AOC)	No	800 mA	Fixed output current
Adjustable Light Output (ALO)	No		
DC emergency (DCemDim)	No		

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
Inrush current I _{peak}	11	A	Input voltage 230V
Inrush current T _{width}	250	μs	Input voltage 230V, measured at 50% I _{peak}
Drivers / MCB 16A type B	≤ 49	pcs	Indicative value



MCB	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

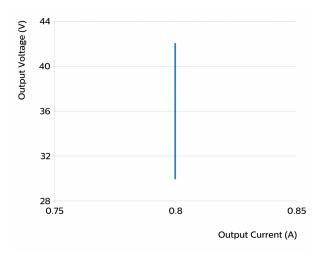
Specification item	Value	Unit	Condition
Mains surge immunity (diff. mode)	1	kV	Acc. IEC61000-4-5. 2 Ohm, 1.2/50us, 8/20us
Mains surge immunity (comm. mode)	2	kV	Acc. IEC61000-4-5. 12 Ohm, 1.2/50us, 8/20us

Application Info

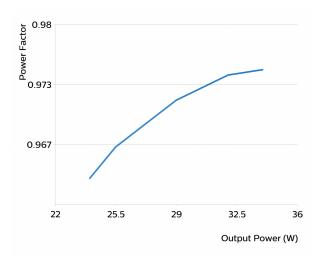
Specification item	Value
Approval marks	CCC / CE / EAC / ENEC / RCM / SELV / TISI / UA
Ingress Protection classification (IP)	20
Noise and hum dB(A)	20
Application	Indoor Point
Mounting Type	Built-in / Independent

Graphs

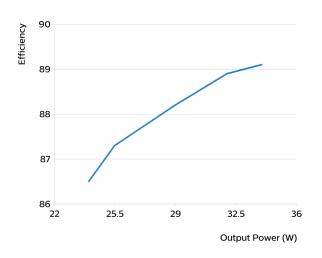
Operating window

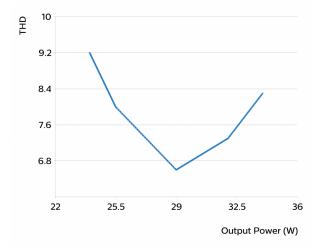


Power factor versus output power



Efficiency versus output power







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