





Datasheet

Xitanium non-isolated Dipswitch

Xitanium 65W 175-350mA 185V DS 230V

9290 034 64506

Affordable and reliable LED Drivers

Xitanium LED drivers with single current output offer industry leading performance and reliability at optimized cost. They are ideal for high volume applications while delivering to specific requirements. These drivers offer the same level of performance as Xitanium adjustable current linear drivers to ensure high quality of light, but with a specific current setting for optimized performance. Due to the low output current ripple, you can be sure to offer your customers high quality of light without visual flicker and stroboscopic effects.

Features

- Low output current tolerance
- Low output current ripple
- Flexible current setting (4 output currents dipswitch)
- Suitable for Class I luminaires

Benefits

- High quality of light
- High reliability
- Optimized performance at specific output current settings

Application

- Offices
- Retail: supermarkets, shopping malls

Logistical data

Specification item	Value
Product name	Xitanium 65W 175-350mA 185V DS 230V
EOC	872016928512500
Logistic code 12NC	9290 034 64506
EAN1 (GTIN)	8720169285125
Pieces per box	20

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	5060	Hz	Performance range
Rated input current	0.33	A	@ rated output power @ rated input voltage @ max output
			current
Rated input power	71.0	W	@ rated output power @ rated input voltage
Power factor	0.95		@ rated output power @ rated input voltage
Total harmonic distortion	20	%	@ rated output power @ rated input voltage
Efficiency	92.0	%	typical value @ 230V, full output power
Input voltage AC	198264	V _{ac}	Operational range
Input frequency AC	4566	Hz	Operational range
Isolation input to output	No		

Electrical output data

Specification item	Value	Unit	Condition
Regulation method	Constant Current		
Output voltage	120185	V _{dc}	
Output voltage max.	250	V	Maximum output voltage (rms)
Output current	175 / 250 / 300 / 350	mA	Select output current via the dipswitch
Output current tolerance ±	8	%	@full load
Output current ripple LF	≤ 4	%	Ripple = peak / average, ≤ 3kHz. Rd > 4.5Ω
Output current ripple HF	≤ 15	%	
Output P _{st} LM	≤ 1		cfr. IEC TR 61547-1:2017
Output SVM	≤ 0.4		cfr. IEC TR 63518:2018
Output power	21.065.0	W	Power factor > 0.9 and THD < 20%
Rated output power	65.0	W	

Electrical data controls input

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Specification item	Value	Unit	Condition
Control method	Fixed		Select output current via the dipswitches

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Wiring and Connections

Specification item	Value	Unit	Туре
Input wire cross-section	0.51.5 / 2016	mm ² / AWG	solid / stranded wire
Input wire strip length	8.59.5	mm	
Output wire cross-section	0.51.5 / 2016	mm² / AWG	solid / stranded wire
Output wire strip length	8.59.5	mm	
Maximum cable length	2	m	Total length of wiring including LED module, one way

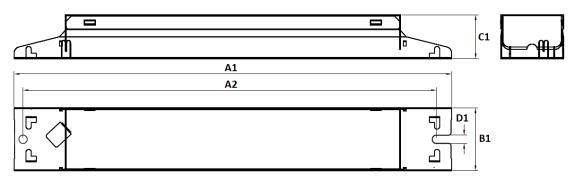


Isolation

Insulation per IEC61347-1	Input	Output	Housing
Input	-	Non	Basic
Output	Non	-	Basic
Housing	Basic	Basic	-

Dimensions and weight

Specification item	Value	Unit	Tolerance (mm)
Length (A1)	210	mm	
Mounting hole distance (A2)	198.5	mm	
Width (B1)	30	mm	
Height (C1)	21	mm	
Mounting hole diameter (D1)	4.1	mm	
Weight	140	gram	



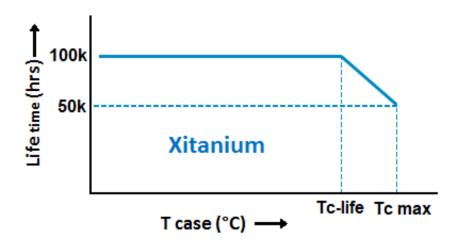
Operational temperatures and humidity

Specification item	Value	Unit	Condition
Ambient temperature	-20+50	°C	Higher ambient temperature allowed as long as Tcase-max is not exceeded
Tcase-max	85	°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

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Lifetime

Specification item	Value	Unit	Condition
Driver lifetime	100,000	hours	Measured temperature at Tcase-point is Tcase-life. Maximum
			failures = 10%



Maximum failures = 10%

Temperature [°C]	Lifetime	Unit	Condition
85	50000	hr	
80	71000	hr	
75	100000	hr	Temperature measured @Tc point
70	>100000	hr	
65	>100000	hr	

Storage temperature and humidity

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

Programmable features

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Specification item	Available	Default setting	Condition
Set Adjustable Output Current (AOC)	DipSwitch	350 mA	Manual set the output current via the dipswitches, see wiring
			diagram for an overview
LED Module Temperature Protection (MTP)	No		
Constant Light Output (CLO)	No		
Corridor Mode	No		
DC emergency (DCemDim)	No		

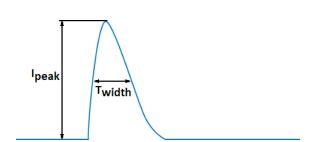
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Features

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	25	A	Input voltage 230V
Inrush peak width	135	μs	Input voltage 230 V, measured at 50% height
Drivers / MCB 16A type B	≤ 36	pcs	Indicative value at 230V



Please refer to the driver design in guide if you use other MCB-types.

If several mini circuit breakers are used directly side-by-side (without distance pieces) a correction factor of 80% has to be applied to the rated current

Driver touch current / protective conductor current / earth leakage current

Specification item	Value	Unit	Condition
Typical Protective Conductor Current (ins. Class I)	0.5	mA rms	Acc. IEC60598-1. LED module contribution not included

Surge immunity

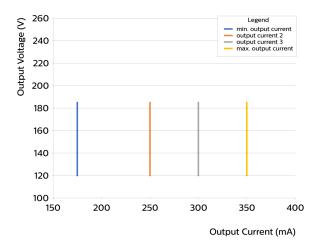
Specification item	Value	Unit	Condition
Mains surge immunity (diff. mode)	1	kV	Acc. IEC61000-4-5. 2 Ohm, 1.2/50us, 8/20us
Mains surge immunity (comm. mode)	2	kV	Acc. IEC61000-4-5. 12 Ohm, 1.2/50us, 8/20us

Application Info

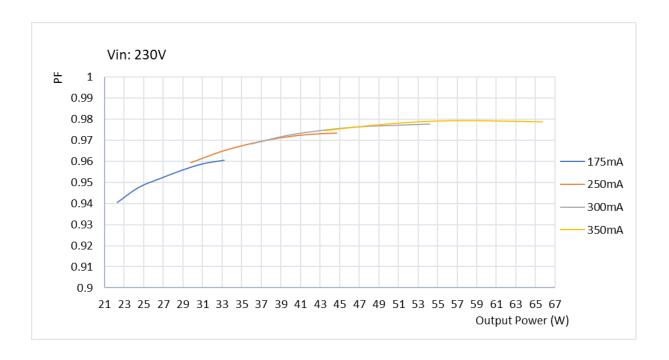
Specification item	Value
Approval marks and Certifications	CCC / CE / EAC / ENEC / RCM / UA / UKCA
Ingress Protection classification (IP)	20
Application	Indoor Linear
Mounting Type	Built-in

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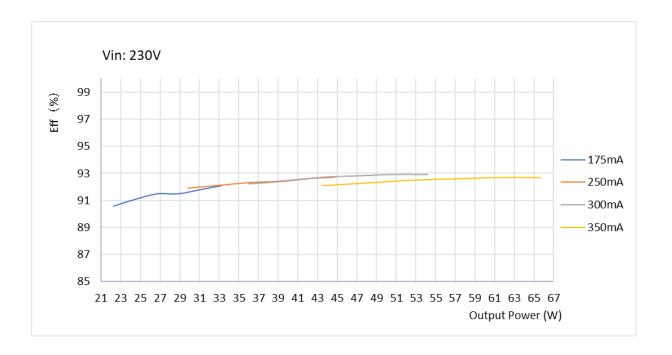
Operating window



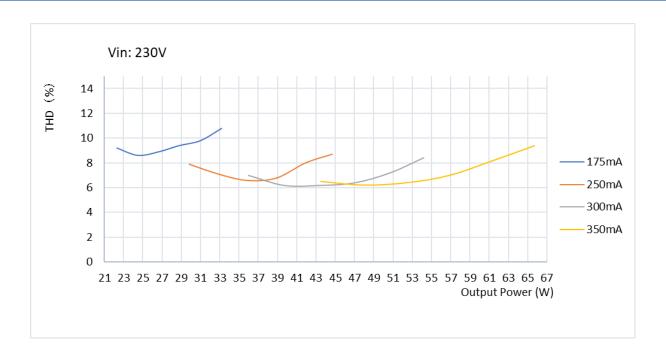
Power factor versus output power



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THD versus output power





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