





# **Preliminary Datasheet**

# Xitanium non-isolated Dipswitch

## Xitanium 44W 200-350mA 125V DS 230V

#### 9290 034 26206

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.

#### **Benefits**

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

#### **Features**

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

#### **Application**

- Offices
- Retail: supermarkets, shopping malls

#### **Electrical input data**

		1	1
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	0.23	A	@ rated output power @ rated input voltage
Rated input power	49	W	@ rated output power @ rated input voltage
Minimum Power factor	0.96		@ rated output power @ rated input voltage
Total harmonic distortion	20	%	@ rated output power @ rated input voltage
Efficiency	91	%	typical value @ 230V, full output power
Input voltage AC range	198264	V <sub>ac</sub>	Operational range
Input frequency AC range	4566	Hz	Operational range
Isolation input to output	No		

#### **Electrical output data**

Specification item	Value	Unit	Condition
Regulation method	Constant Current		
Output voltage	70125	$V_{dc}$	
Output voltage max.	220	V	Maximum output voltage (rms)
Output current	0.20.35	A	Select output current via the dipswitch
Output current tolerance ±	8	%	@full load
Output current ripple LF	≤ 4	%	Ripple = peak / average, < 3kHz. Rd = 50Ω
Output current ripple HF	≤ 15	%	
Output P <sub>st</sub> <sup>LM</sup>	≤ 1		
Output SVM	≤ 0.4		
Output power	1444	W	
Minimum performance output power	14	W	Power factor > 0.9 and THD < 20%
Rated output power	44	W	

## Electrical data controls input

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

## **Wiring and Connections**

Specification item	Value	Unit	Туре
Input wire cross-section	0.51.5	mm <sup>2</sup> / AWG	solid / stranded wire
Input wire strip length	8.59.5	mm	
Output wire cross-section	0.51.5	mm <sup>2</sup> / 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

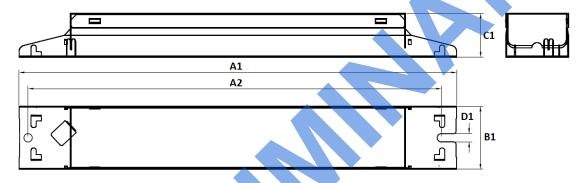


#### Isolation

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)	198.4	mm	
Width (B1)	30.2	mm	
Height (C1)	21	mm	
Mounting hole diameter (D1)	4	mm	
Weight	152	gram	



## Logistical data

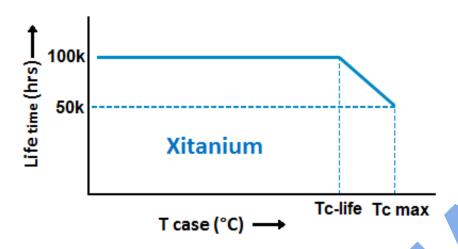
Specification item		Value
Product name		Xitanium 44W 200-350mA 125V DS 230V
EOC		871951448612600
Logistic code 12NC		9290 034 26206
EAN1 (GTIN)		8719514486126
Pieces per box		20

## 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 <sub>case</sub> -point
Tcase-life	75	°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

Specification item	Value	Unit	Condition
Driver lifetime	100,000	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

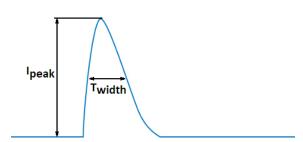
Specification item	Available	Default setting	Condition
Set Adjustable Output Current (AOC)	DipSwitch	350 mA	Manual set the output current via the dipswitches, see wiring
			diagram for an overview
LED Module Temperature Protection (MTP	No		
Constant Light Output (CLO)	No		
Corridor Mode	No		
DC emergency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

#### **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	17	A	Input voltage 230V
Inrush peak width	140	μs	Input voltage 230 V, measured at 50% height
Drivers / MCB 16A type B	≤ 52	pcs	Indicative value at 230V



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

## 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

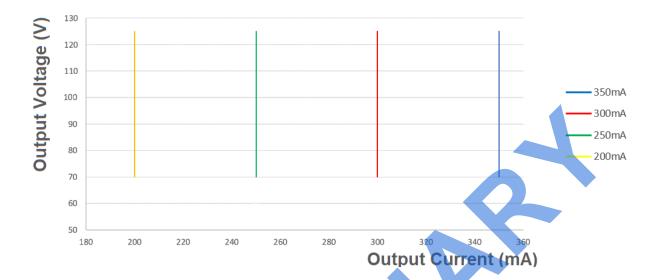
#### **Surge immunity**

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			4	Va	alue		
Approval marks and Certification	ons			СС	C/CE	/ EAC	/ ENEC
Ingress Protection classification	า (IP)			20		7	
Application				Inc	door Li	near	
Mounting Type		$\mathcal{I}$		Bu	ilt-in		

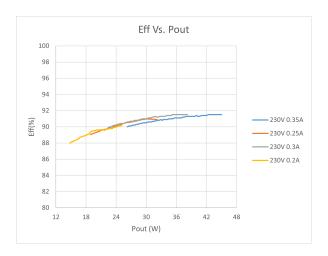
#### Operating window

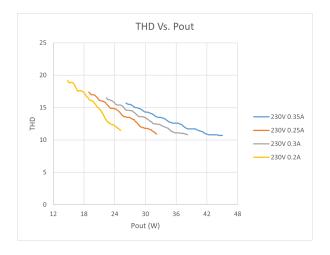


#### Power factor versus output power



## Efficiency versus output power







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