





Datasheet

LED drivers - mini (DipSwitch)

Xitanium 40W/m 0.7-1.05A 44V DS I 230V

9290 028 80206

Enabling future-proof LED technology

Xitanium LED drivers are designed to operate LED solutions for general lighting applications.

Benefits

- High reliability underpinned by 5 year warranty
- Future-proof flexibility application-oriented operating windows enable LED generation and complexity management
- Compatibility can also be used for other manufacturers' modules or OEMs' own PCB designs

Features

- Easy current selection via dipswitch
- SELV

Application

Retail

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	0.2	А	@ rated output power @ rated input voltage
Rated input power	45	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	88	%	@ rated output power @ rated input voltage @ max. Uout
Rated input voltage DC range	186250	V _{dc}	Performance range; EOFi = 95%
Rated input current DC range	0.260.16	A _{dc}	Performance range
Input voltage AC range	198264	V _{ac}	Operational range
Input frequency AC range	4566	Hz	Operational range
Input voltage DC range	168275	V _{dc}	Operational range
Isolation input to output	SELV		

Electrical output data

Specification item	Value	Unit	Condition
Regulation method	Constant Current		
Output voltage	544	V _{dc}	1050mA: 538V, 1000mA: 540V, 950mA: 542V
Output voltage max.	60	V	Maximum output voltage (rms)
Output current	0.7 / 1.05	Α	Via dipswitch: 0.7/0.75/0.8/0.85/0.9/0.95/1.0/1.05A
Output current tolerance ±	5	%	
Output current ripple LF	≤ 4	%	Ripple = peak / average, < 3kHz
Output P _{st} LM	≤ 1		In entire voltage range for each choice of output current
Output SVM	≤ 0.4		In entire voltage range for each choice of output current
Output power	1240	W	

Electrical data controls input

Specification item	Value	Unit	Condition
Control method	Fixed		Output current can be set via dip switches

Wiring and Connections

Specification item	Value	Unit	Туре
Input wire cross-section	0.752.5 / 1814	mm² / AWG	solid / stranded wire
Input wire strip length	1011	mm	
Output wire cross-section	0.51.5	mm ² / AWG	solid / stranded wire
Output wire strip length	89	mm	
Maximum cable length	2	m	CISPR15: between driver and LED module
Loop Through	Input		



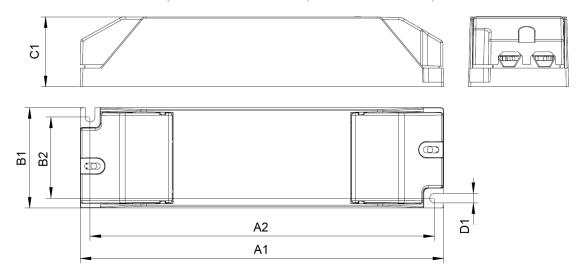
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Insulation

Insulation per IEC61347-1	Mains	LED output
Mains		SELV
LED output	SELV	

Dimensions and weight

Specification item	Value	Unit	Tolerance (mm)
Length (A1)	156	mm	
Mounting hole distance (A2)	147.8	mm	
Width (B1)	43	mm	
Width (B2)	34.8	mm	
Height (C1)	30	mm	
Mounting hole diameter (D1)	4	mm	
Weight	134	gram	
Housing color	White (RAL 9016)		



Logistical data

Specification item	Value
Product name	Xitanium 40W/m 0.7-1.05A 44V DS I 230V
EOC	871951439632600
Logistic code 12NC	9290 028 80206
EAN1 (GTIN)	8719514396326
EAN3 (box)	8719514396333
Pieces per box	40

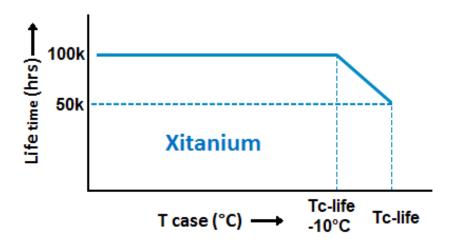
Operational temperatures and humidity

Specification item	Value	Unit	Condition
Ambient temperature	-20+45	°C	Higher ambient temperature allowed as long as Tcase-max is not
			exceeded
Tcase-max	80	°C	Maximum temperature measured at T _{case} -point
Tcase-life	80	°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	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)	DipSwitch	700 mA	Set the output current via the dipswitch, see wiring diagram for
			an overview

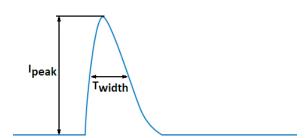
Features

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

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Inrush current

Specification item	Value	Unit	Condition
Inrush current	16.5	A	Input voltage 230V
Inrush peak width	150	μs	Input voltage 230 V, measured at 50% height
Drivers / MCB 16A type B	≤ 48	pcs	Indicative value



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

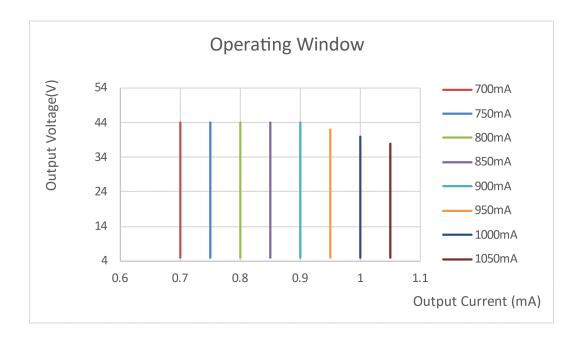
Surge immunity

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

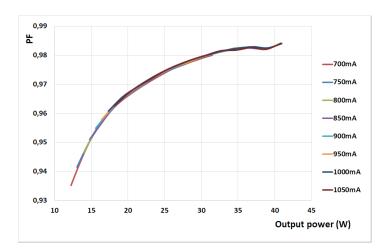
Application Info

Specification item	Value
Approval marks	CCC / CE / Double-insulated / EL / ENEC / Independent / RCM / SELV / UKCA / WEEE
Ingress Protection classification (IP)	20
Noise and hum dB(A)	20
Application	Indoor Point
Mounting Type	Independent

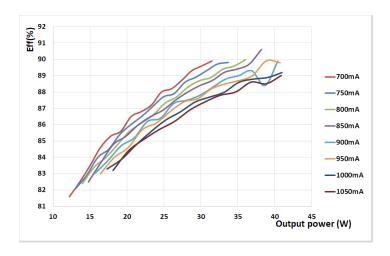
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Power factor versus output power

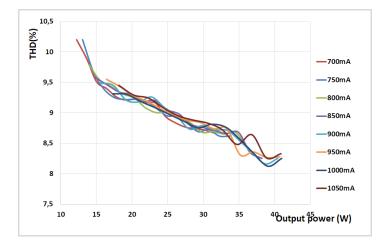


Efficiency versus output power



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THD versus output power





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