Xitanium LED Driver

9290 048 82901



Xi LED Transformer C 60W 24VDC IW

Signify Xitanium Constant Voltage drivers are designed to operate 24VDC LED solutions used in application such as shelf lighting, retail display lighting and facade lighting. Xitanium Constant Voltage drivers come with several protection features which guarantee reliable operation and 50,000 hours lifetime. They are specifically designed to ensure great EMI performance, high robustness and safe usage.

Benefits

- Provides options for different luminaire designs
- Great EMI performance for easy design-in
- Guarantee reliable operations
- Peace of mind with proven reliability

Features

- Class I and II application
- Open Load/Short-circuit/Overpower Protection
- 5% output power at minimal operation range
- 50,000 hours lifetime

Application

- Retail display lighting
- Cove lighting
- Façade lighting
- Shelf lighting

Specified data are subject to change

Logistical data

Specification item	Value
Product name	Xi LED Transformer C 60W 24VDC IW
Logistic code 12NC	9290 048 82901
Pieces per box	80
Weight	118 gram

Electrical input data

Specification item	Value	Unit	Condition
Rated input voltage range	220...240	V_{ac}	Performance range
Rated input voltage	230	V_{ac}	
Rated input frequency	50...60	Hz	Performance range
Rated input current	0.3	A	@ rated output power @ rated input voltage
Rated input power	67.0	W	@ rated output power @ rated input voltage
Power factor	0.95		@ rated output power @ rated input voltage
Total harmonic distortion	10	%	@ rated output power @ rated input voltage
Efficiency	92.0	%	@ rated output power @ rated input voltage
Input voltage AC	198...264	V_{ac}	Operational range
Input frequency AC	45...66	Hz	Operational range
No load power	< 0.50	W	
Isolation input to output	Reinforced (SELV)		

Electrical output data

Specification item	Value	Unit	Condition
Regulation method	Constant Voltage		
Output voltage	24	V_{dc}	Output voltage range: 23 ... 25VDC @ output current range 0.75 ... 2.5A
Output voltage max.	25	V	
Output current	125...2500	mA	
Output voltage ripple	≤ 2	%	≤ 480mVpp
Output power	3.0...60.0	W	
Line regulation	≤ 1	%	
Load regulation	≤ 3	%	
Turn-on delay	≤ 0.5	s	
Output voltage rise time	≤ 50	ms	
Hold-up time	≥ 10	ms	

Control interfaces

Specification item	Value	Unit	Condition
Control method	Fixed		

Wiring and Connections

Specification item	Value	Unit	Type
Input wire cross-section	0.75...1.5 / 18...16	mm^2 / AWG	Solid / stranded wire
Input wire strip length	5...6	mm	Applicable cable outer jacket diameter: 2.5...7 mm
Output wire cross-section	0.5...1.5 / 20...16	mm^2 / AWG	Solid / stranded wire
Output wire strip length	5...6	mm	Applicable cable outer jacket diameter: 2.5...7 mm
Maximum cable length	2.5	m	Total cable length between driver and LED modules per CISPR15



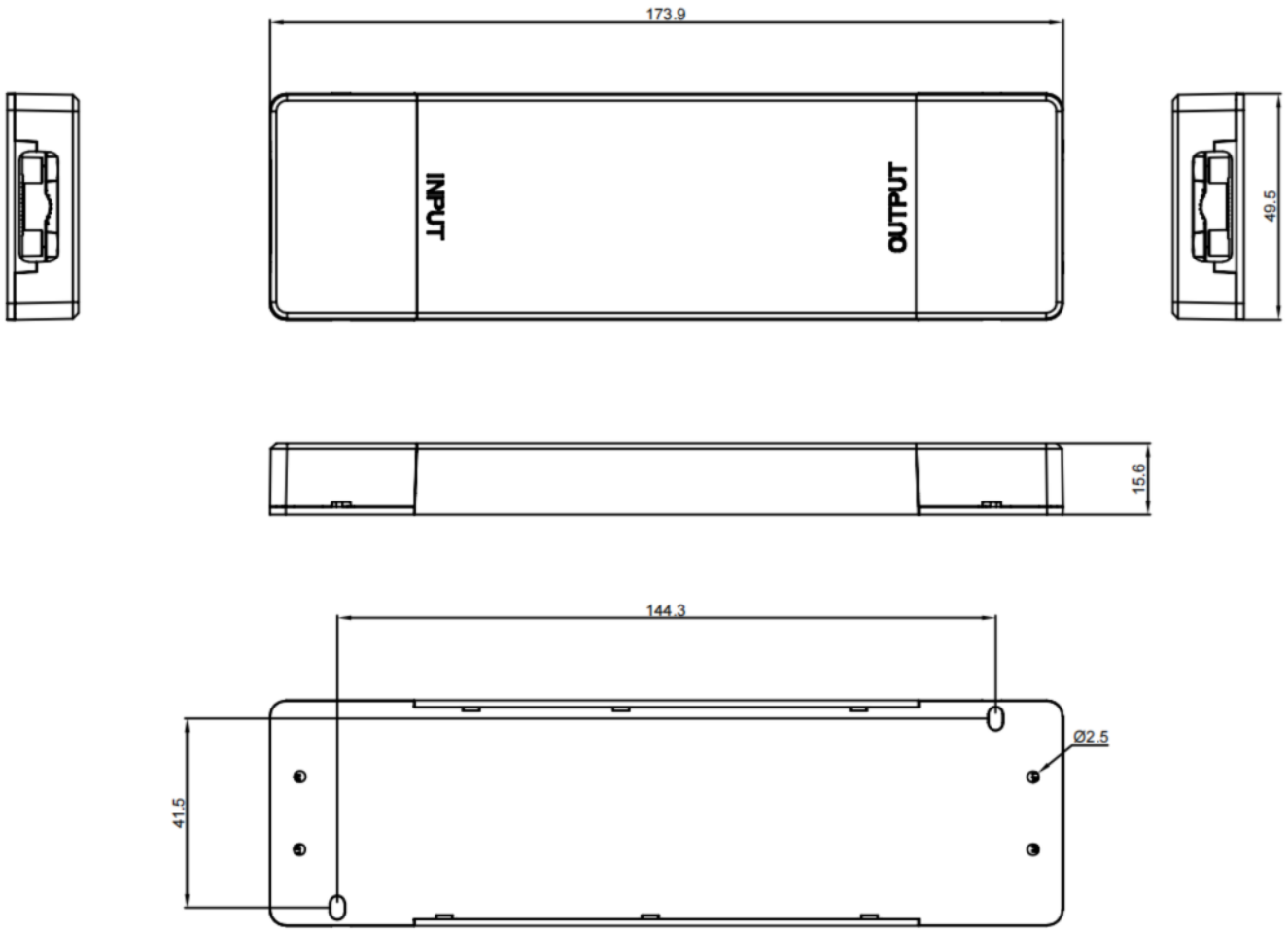
Isolation

Insulation per IEC61347-1	Mains	Output
Mains	-	Reinforced (SELV)
Output	Reinforced (SELV)	-

Specified data are subject to change

Dimensions and weight

Specification item	Value	Unit	Tolerance (mm)
Length (A1)	173.9	mm	± 1
Mounting hole distance (A2)	144.3	mm	± 1
Width (B1)	49.5	mm	± 0.5
Width (B2)	41.5	mm	± 0.5
Height (C1)	15.6	mm	± 0.5
Mounting hole diameter (D1)	2.5	mm	± 0.5



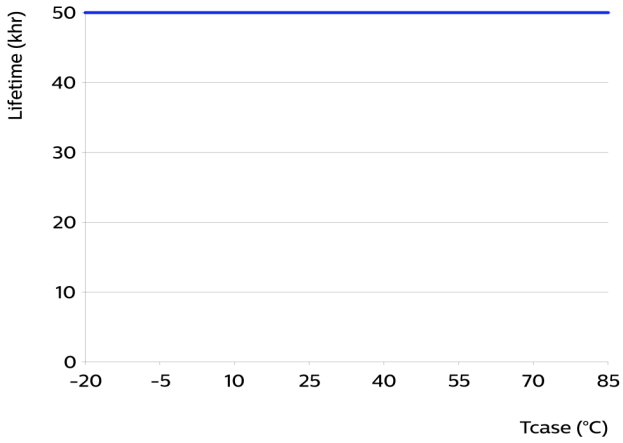
Operational temperatures and humidity

Specification item	Value	Unit	Condition
Ambient temperature	-20...+45	°C	Higher ambient temperature allowed as long as Tcase-max is not exceeded
Tcase-max	85	°C	Maximum temperature measured at T_{case}-point
Tcase-life	85	°C	Measured at T_{case}-point
Maximum housing temperature	110	°C	In case of a failure, inherent by design
Relative humidity	10...90	%	Non-condensing

Specified data are subject to change

Lifetime

Specification item	Value	Unit	Condition
Driver lifetime	50,000	hours	Measured temperature at Tcase-point is Tcase-life. Maximum failures = 10%



Maximum failures = 10%

Storage temperature and humidity

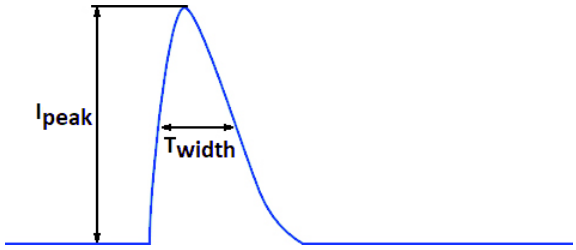
Specification item	Value	Unit	Condition
Ambient temperature	-25...+85	°C	
Relative humidity	5...95	%	Non-condensing

Non-programmable features

Specification item	Value		Condition
Open load protection	Yes		Automatic recovering
Short circuit protection	Yes		Hiccup mode, automatic recovering
Over power protection	Yes		Automatic recovering
Hot wiring	Yes		
Suitable for fixtures with protection class	I and II		per IEC60598

Inrush current

Specification item	Value	Unit	Condition
Inrush current	42.5	A	Input voltage 230V
Inrush peak width	138	µs	Input voltage 230V, measured at 50% height
Drivers / MCB 16A type B @230V AC	≤ 17	pcs	Input voltage 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 Touch Current (ins. Class II)	0.7	mA peak	Acc. IEC60598-1. LED module contribution not included
Typical Protective Conductor Current (ins. Class I)	0.5	mA rms	Acc. IEC60598-1. LED module contribution not included

Surge immunity

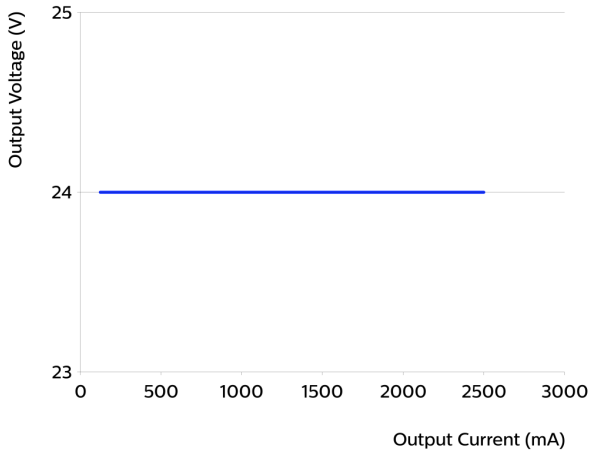
Specification item	Value	Unit	Condition
Mains surge immunity (diff. mode)	1	kV	L-N acc. IEC61000-4-5, 2 Ohm
Mains surge immunity (comm. mode)	2	kV	L/N-PE, acc. IEC61000-4-5. 12 Ohm

Application Info (Approbation)

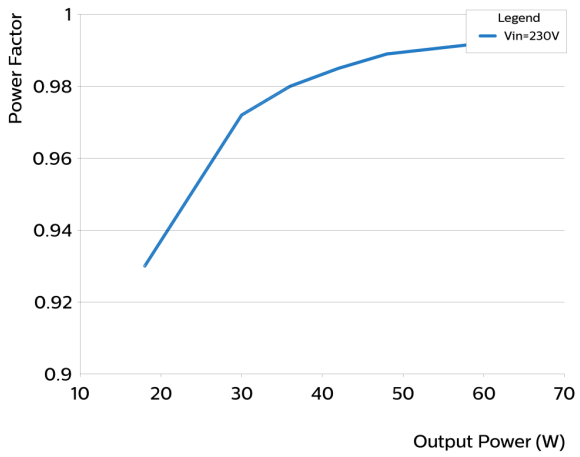
Specification item	Value
Approval marks and Certifications	110 / CB / CCC / CE / ENEC / MM / RCM(Do Not Cover) / SELV / UKCA
Ingress Protection classification (IP)	20
Application	Indoor Constant Voltage

Graphs

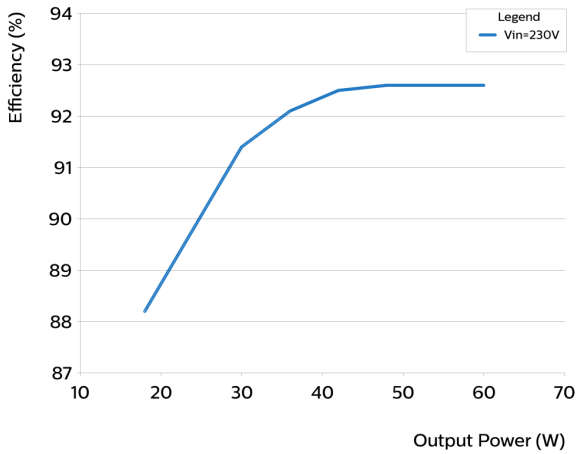
Operating window



Power factor versus output power

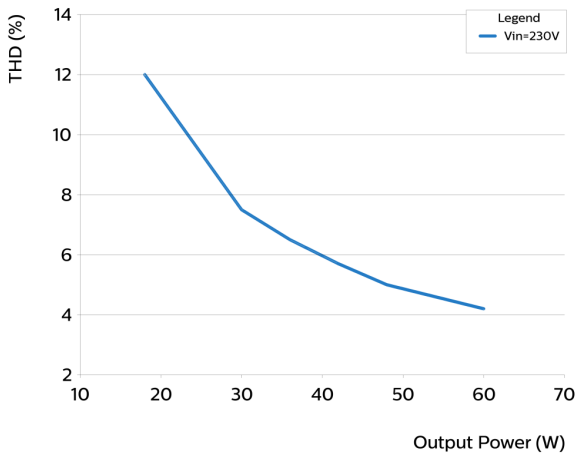


Efficiency versus output power



Specified data are subject to change

THD versus output power



© 2026 Signify Holding. All rights reserved. The information provided herein is subject to change, without notice. Signify does not give any representation or warranty as to the accuracy or completeness of the information included herein and shall not be liable for any action in reliance thereon. The information presented in this document is not intended as any commercial offer and does not form part of any quotation or contract, unless otherwise agreed by Signify. All trademarks are owned by Signify Holding or their respective owners.