Xitanium LED Driver

9290 034 63302



Xitanium LED Transformer G2

Xi LED Transformer 30W 24VDC G2

Signify Xitanium Constant Voltage drivers are designed to operate 24VDC LED solutions used both in built-in and independent applications 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 II application
- Built in and independent application
- Open Load/Short-circuit/Overpower Protection
- 5% output power at minimal operation range
- 2% output voltage ripple
- 50,000 hours lifetime

Applications

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

Logistical data

Specification item	Value
Product name	Xi LED Transformer 30W 24VDC G2
Logistic code 12NC	9290 034 63302
Pieces per box	80
Weight	88 gram

Electrical input data

Specification item	Value	Unit	Condition
Rated input voltage range	220...240	Vac	Performance range
Rated input voltage	230	Vac	
Rated input frequency	47...63	Hz	Performance range
Rated input current	0.18	A	@ rated output power @ rated input voltage
Rated input power	36.0	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	86.0	%	@ rated output power @ rated input voltage
Input voltage AC	198...264	Vac	Operational range
Input frequency AC	45...66	Hz	Oerational range
Standby Power (W)	< 0.50	W	
Isolation input to output	SELV		

Electrical output data

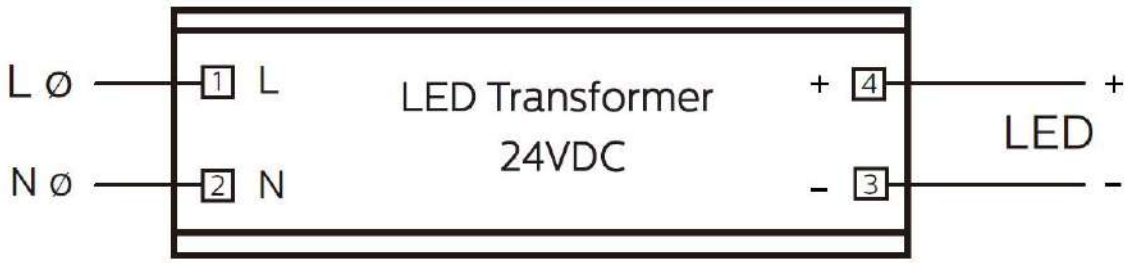
Specification item	Value	Unit	Condition
Regulation method	Constant Voltage		
Output voltage	24	Vdc	Output voltage range: 22.8 ... 25.2VDC @ output current range 0.375 ... 1.25A
Output voltage max.	31	V	
Output current	63...1250	mA	
Output voltage ripple	≤ 2	%	≤ 480 mVpp
Output power	1.5...30.0	W	
Line regulation	≤ 1	%	
Load regulation	≤ 3	%	
Turn-on delay	≤ 1	s	
Output voltage rise time	≤ 30	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...2.5 / 18...14	mm^2 / AWG	solid / stranded wire
Input wire strip length	6...7	mm	
Output wire cross-section	0.5...2.5 / 20...14	mm^2 / AWG	solid / stranded wire
Output wire strip length	6...7	mm	
Maximum cable length	2.5	m	Total cable length between driver and LED modules per CISPR15

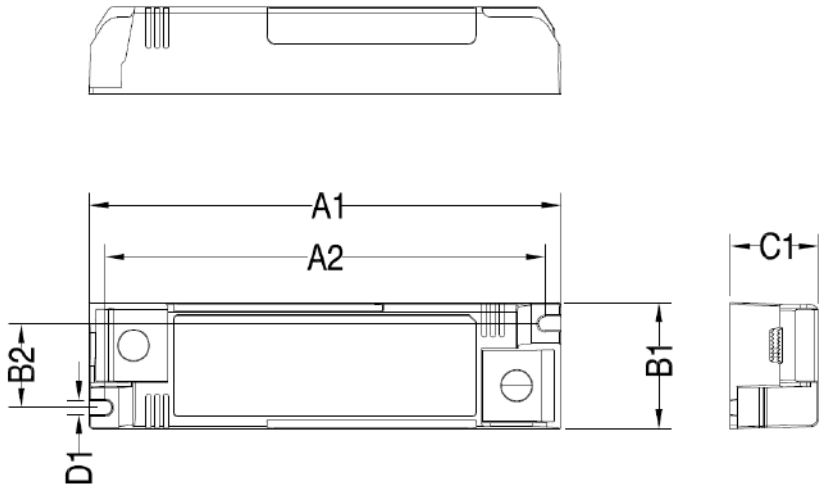


Isolation

Insulation per IEC61347-1	Mains	Output
Mains	-	SELV
Output	SELV	-

Dimension and Weight

Specification item	Value	Unit	Type
Length (A1)	135	mm	± 1
Mounting hole distance (A2)	126	mm	± 1
Width (B1)	36	mm	± 0.5
Width (B2)	24	mm	± 0.5
Height (C1)	25	mm	± 0.5
Mounting hole diameter (D1)	4	mm	± 0.5
Weight	88	gram	

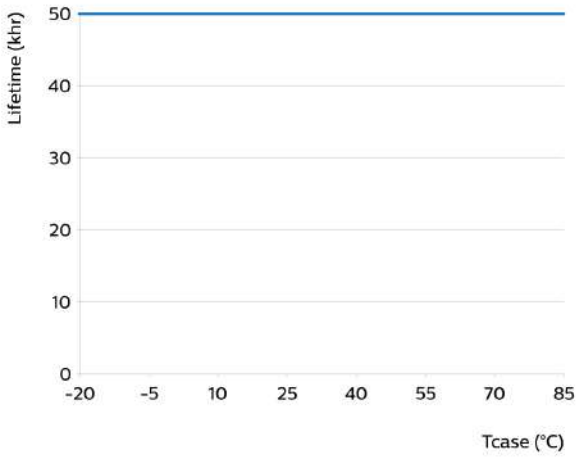


Operational Temperatures and Humidity

Specification item	Value	Unit	Condition
Ambient temperature	-20...+50	°C	Higher ambient temperature allowed as long as Tcase-max is not exceeded
Tcase-max	90	°C	Maximum temperature measured at Tcase-point
Tcase-life	85	°C	Measured at Tcase-point
Relative humidity	10...90	%	Non-condensing

Lifetime

Specification item	Value	Unit	Condition
Driver lifetime	50.000	°C	Measured temperature at Tcase-point is Tcase-life. Maximum failures = 10%



Operational Temperatures and Humidity

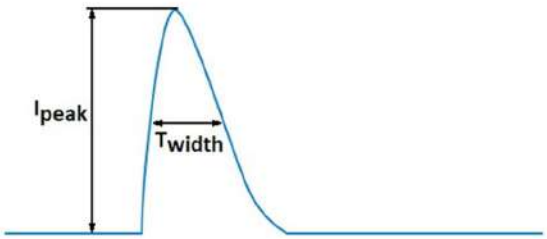
Specification item	Value	Unit	Condition
Ambient temperature	-20...+85	°C	
Relative humidity	5...95	%	Non-condensing

Non-programmable Features

Specification item	Value	Default Setting	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	II		per IEC60598

Inrush Current

Specification item	Value	Default Setting	Condition
Inrush current	32	A	Input voltage 230V
Inrush peak width	126	µs	Input voltage 230V, measured at 50% height
Drivers / MCB 16A type B @230V AC	≤ 29	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	Default Setting	Condition
Typical Touch Current (ins. Class II)	0.7	mA peak	Acc. IEC61347-1. LED module contribution not included

Surge Immunity

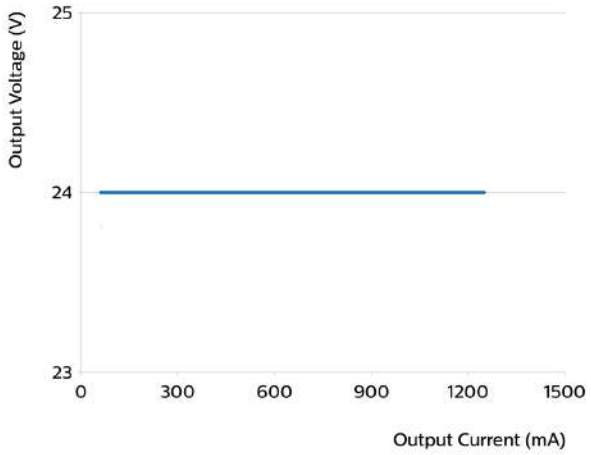
Specification item	Value	Default Setting	Condition
Mains surge immunity (diff. mode)	1	kV	L-N acc. IEC61000-4-5. 2 Ohm
Mains surge immunity (comm. mode)	2	kV	L/N-PE, acc. IEC61000-4-5. 12 Ohm

Application Info (Approbation)

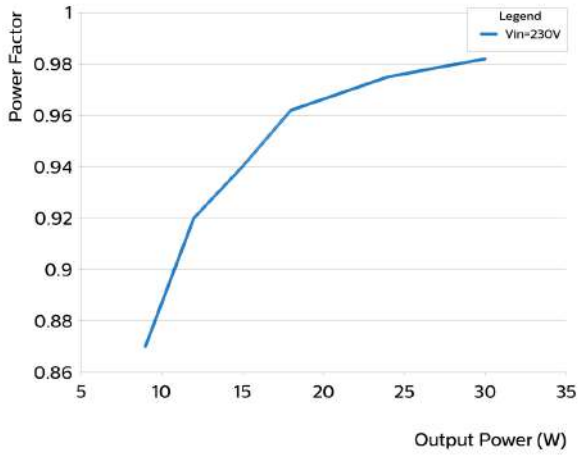
Specification item	Value
Approval marks and Certifications	CCC / CE / ENEC / MM / RCM / SELV / UKCA
Ingress Protection classification (IP)	20
Noise and hum dB(A)	20
Application	Indoor Constant Voltage
Mounting Type	Built-in / Independent

Graphs

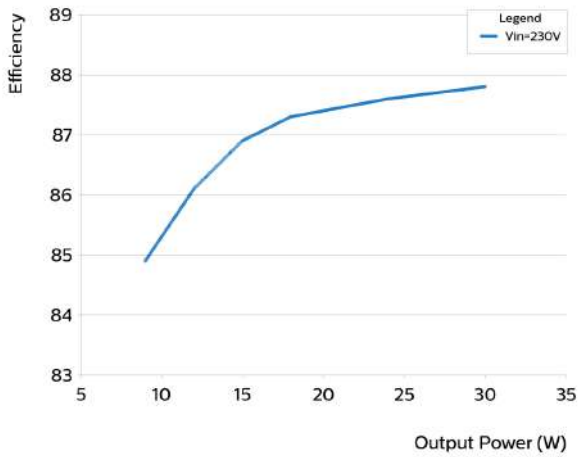
Operating Window



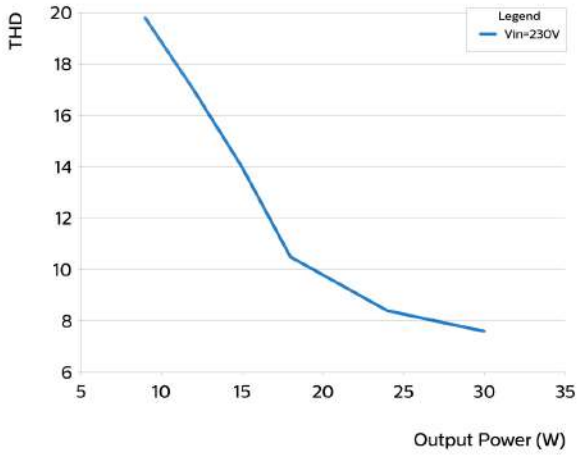
Power factor versus output power



Efficiency versus output power



THD versus output power



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