



Datasheet

Xitanium LED Transformer G2

Xi LED Transformer 30W 24VDC 9290 034 63380

Philips 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.

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

Benefits

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

Application

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

Logistical data

Specification item	Value
Product name	Xi LED Transformer 30W 24VDC
Logistic code 12NC	9290 034 63380
Pieces per box	80

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	4763	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 performance range	≥ 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	198264	V _{ac}	Operational range
Input frequency AC	4566	Hz	Operational range
Isolation input to output	SELV		

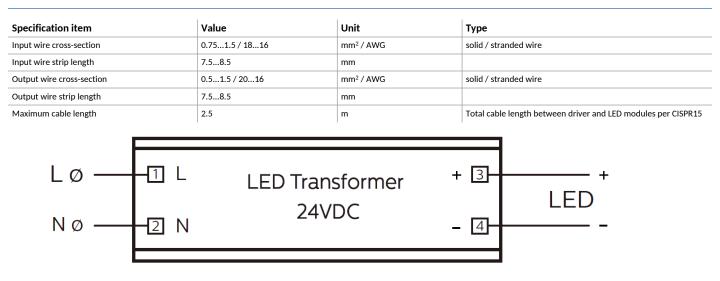
Electrical output data

Specification item	Value	Unit	Condition
Regulation method	Constant Voltage		
Output voltage	24	V _{dc}	Output voltage range: 22.8 25.2VDC @ output current range
			0.375 1.25A
Output voltage max.	31	v	
Output current	631250	mA	
Output voltage ripple	≤ 2	%	≤ 480 mV _{pp}
Output power	1.530.0	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



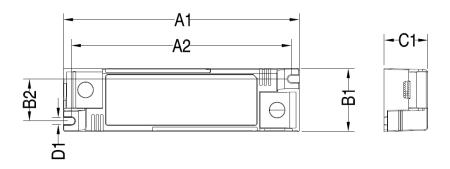
Isolation

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

Dimensions and weight

Specification item	Value	Unit	Tolerance (mm)
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	90	gram	



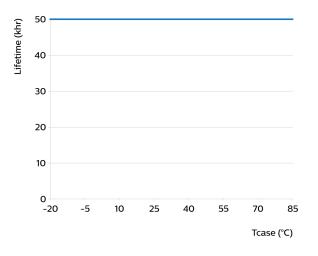


Operational temperatures and humidity

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 T _{case} -point
Tcase-life	85	°C	Measured at T _{case} -point
Relative humidity	1090	%	Non-condensing

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	-20+85	°C	
Relative humidity	595	%	Non-condensing

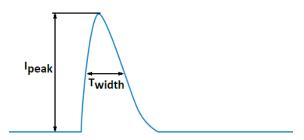
Non-programmable features

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	No load power < 0.5W
Suitable for fixtures with protection class	11	per IEC60598

Inrush current

Specification item	Value	Unit	Condition
Inrush current	32	A	Input voltage 230V
Inrush peak width	126	μs	Input voltage 230 V, measured at 50% height
Drivers / MCB 16A type B	≤ 29	pcs	Input voltage 230V230

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

Surge immunity

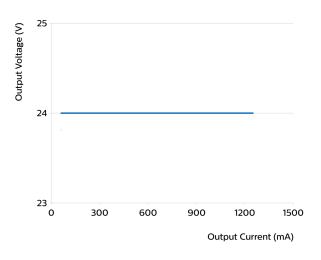
Specification item	Value	Unit	Condition
Mains surge immunity (diff. mode)	1	kV	L-N acc. IEC61000-4-5. 2 Ohm
Mains surge immunity (comm. mode)	2	kV	L/N-PE, acc. IEC61000-4-5. 12 Ohm

Application Info (Approbation)

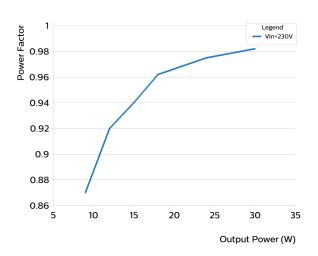
Specification item	Value	
Approval marks and Certifications	CCC / CE / ENEC / MM / RCM / SELV / UKCA	
Ingress Protection classification (IP)	20	
Noise and hum dB(A)	20	
Application	Indoor Constant Voltage	
Mounting Type	Built-in / Independent	

Graphs

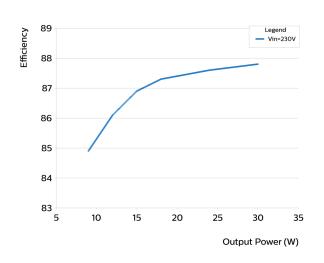
Operating window

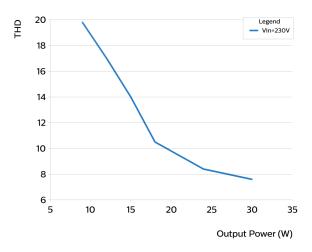


Power factor versus output power



Efficiency versus output power







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