





Datasheet

Xitanium High Bay LED Drivers GL Independent

Xi 200W 0.66-1.10A 1-10V GL AUX RI132S

9290 028 25780

LED-based light sources are an excellent solution for highbay industrial applications.

They are long-lasting and require low maintenance. However, to get the best out of the LEDs, these light sources require highly reliable and efficient LED Drivers. Philips Xitanium Dimmable (1-10V) LED Outdoor Drivers are specifically designed to deliver reliable performance and protection while meeting the strict approbation and application requirements.

Benefits

- Able to reliably operate anywhere around the world
- Reliable and robust design, capable of withstanding the harsh industrial operating conditions
- Wide flexibility by adjusting light output and output current
- Option to power a sensor or control via AUX power supply
- Extremely long lifetime, fitting with high bay industrial applications
- Peace of mind. Backed by a 5-year warranty from a company you can trust

Feature

- 100-277V (Global) versions
- Independent/IP65 rated
- Adjustable output current
- Dimmable through 1-10V interface
- Auxiliary Power Supply (12V, 200mA)
- High ambient temperature rating
- Approbations: CE, ENEC, CB, CCC, UL
- 50,000 hours lifetime

Application

- Highbay industrial lighting
- Warehouse lighting
- · Big-box retail store lighting

Electrical input data

Specification item	Value	Unit	Condition
Rated input voltage range	100277	V _{ac}	Performance range
Rated input voltage	230	V _{ac}	
Rated input frequency range	5060	Hz	Performance range
Rated input current	0.91	A	@ rated output power @ rated input voltage
Rated input power	209	w	@ rated output power @ rated input voltage
ower factor	0.95		@ rated output power @ rated input voltage
otal harmonic distortion	10	%	@ rated output power @ rated input voltage
Efficiency	95.5	%	@ rated output power @ rated input voltage
nput voltage AC range	85305	V _{ac}	Operational range
nput frequency AC range	47.563	Hz	Operational range

Electrical output data

Specification item	Value	Unit	Condition
Regulation method	Constant Current		
Output voltage	160260	V_{dc}	
Output voltage max.	300	v	Maximum output voltage (rms)
Output current	0.661.1	A	
Output current min dimming	66	mA	
Output current tolerance	± 5	%	
Output current ripple LF	≤ 5	%	Ripple = peak / average, < 3kHz
Output current ripple HF	≤ 5	%	
Output power	10.6200	W	

Electrical data controls input

Specification item	Value	Unit	Condition
Control method	1-10V		Output current amplitude dimming, 1-10V acc. IEC60929
Dimming range	10100	%	Defaultrange
Isolation controls input to output	Reinforced		acc. IEC61347-1

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Wiring and Connections

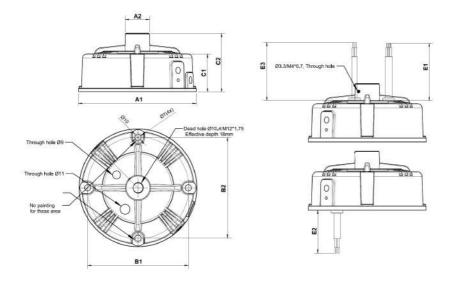
Specification item	Value	Unit	Туре
Input wire cross-section	1.04 / 17	mm² / AWG	3-wire cable, AWG17
Output wire cross-section	1.04 / 17	mm²/AWG	2-wire cable, AWG17
Control wire cross-section	0.33 / 22	mm²/AWG	3-wire cable, AWG22
Maximum cable length	2	m	Total length of wiring including LED module, one way

Insulation

Insulation per IEC61347-1	Mains	Output	Dim & AUX	Ground
Mains		Non	Reinforced	Basic
Output	Non		Reinforced	Basic
Dim & AUX	Reinforced	Reinforced		Basic
Ground	Basic	Basic	Basic	

Dimensions and weight

Specification item	Value	Unit	Tolerance (mm)	
Length (A1)	132	mm		
Mounting hole distance (A2)	27	mm		
Width (B1)	113	mm		
Width (B2)	113	mm		
Height (C1)	43	mm		
Height (C2)	66	mm		
Input cable length (E1)	300	mm		
Output cable length (E2)	300	mm		
Control cable length (E3)	300	mm		
Weight	1030	gram		



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Logistical data

Specification item	Value
Product name	Xi 200W 0.66-1.10A 1-10V GL AUX RI132S
Logistic code 12NC	92 90 028 25780
Pieces per box	10

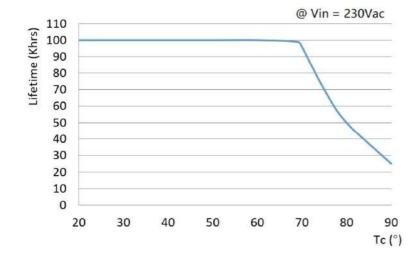
Operational temperatures and humidity

Specification item	Value	Unit	Condition
Ambient temperature	-40+60	°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	70	°C	Measured at T _{case} -point
Maximum housing temperature	110	°C	In case of a failure, inherent by design
Relative humidity	1090	%	Non-condensing

^{*} Note: Tc max = 75°C, Tc life = 65°C @Vin<120Vac

Lifetime

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



Storage temperature and humidity

Specification item	Value	Unit	Condition	
Ambient temperature	-40+85	°C		
Relative humidity	595	%	Non-condensing	

Programmable features

Specification item	Available	Default setting	Condition	
Set Adjustable Output Current (AOC)		769 mA		

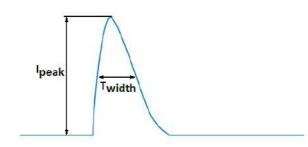
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Features

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	1	per IEC60598
Overtemperature protection	Yes	Automatic recovering
Auxiliary Power Supply (Vaux)	Yes	12Vdc, 200mA

Inrush current

Specification item	Value	Unit	Condition
Inrush current I _{peak}	56	A	Input voltage 230V
Inrush current T _{width}	326	μѕ	Input voltage 230V, measured at 50% I _{peak}
Drivers / MCB 16A type B	≤ 5	pcs	Indicative value



MCB	Rating	Relative number of LED drivers		
В	4A	25%		
В	6A	40%		
В	10A	63%		
В	13A	81%		
В	16A	100% (stated in datasheet)		
В	20A	125%		
В	25A	156%		
В	32A	200%		
В	40A	250%		
С	4A	42%		
С	6A	63%		
С	10A	104%		
С	13A	135%		
С	16A	170%		
С	20A	208%		
С	25A	260%		
С	32A	340%		
С	40A	415%		

Driver touch current / protective conductor current

Specification item	Value	Unit	Condition
Typical Protective Conductor Current (ins. Class I)	2	mA rms	Acc. IEC60598-1. LED module contribution not included

Surge immunity

Specification item	Value	Unit	Condition
Mains surge immunity (diff. mode)	6	kV	Acc. IEC61000-4-5. 2 Ohm, 1.2/50us, 8/20us
Mains surge immunity (comm. mode)	6	kV	Acc. IEC61000-4-5. 12 Ohm, 1.2/50us, 8/20us

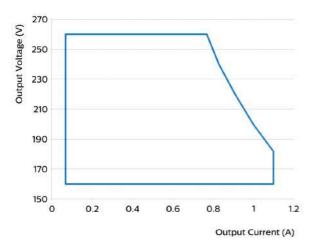
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Application Info

Specification item	Value	
Approval marks	CB/CCC/CE/ENEC/RCM/RU	
Ingress Protection classification (IP)	65	

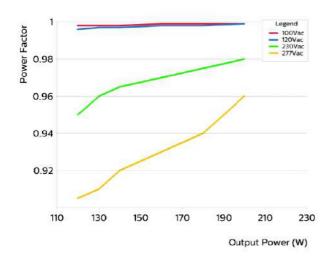
Graphs

Operating window



Power factor versus output power

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