

Datasheet

Xitanium LITE Prog LED drivers Independent Xi LP 150W 0.3-1.05A S1 GL I200

Philips Xitanium Lite Programmable LED drivers are value engineered to deliver a carefully selected feature set and high-end performance, making it a preferred choice for many outdoor applications. The portfolio offers high flexibility with a customizable operating window, enabling differentiation in LED lighting designs via system tuning and being prepared for LED efficacy upgrades.

In this product family Philips introduces new drivers in a stretched form factor with a balanced feature set, which offer high value for both OEM customers and end-users. The products can replace the existing programmable outdoor LED drivers and will bring significant improvement in programming, assembly into a luminaire and electrical performance. One of the key features is SimpleSet*, an easy and fast way to configure the driver without the need to power the driver.

Benefits

- Ultimate robustness, offering peace of mind and lower maintenance costs
- Long lifetime and high survival rate
- Energy savings through high efficiency
- Balanced configurable feature set covering the most common applications
- Superior thermal management
- Consistent waterproof performance through the lifecycle
- Easy to design-in, configure and install for Class I applications

Features

- SimpleSet®, wireless configuration interface
- High surge protection
- Long lifetime and robust protection against moisture, vibration and temperature
- Configurable operating windows(AOC)
- External control interface (1-10V) available
- Digital Configuration Interface (DCI) via MultiOne Interface
- Autonomous or Fixed time based (FTBD) dimming via integrated 5-step DynaDimmer
- Programmable Constant Light Output (CLO)
- Integrated Driver Temperature protection

Application

- Residential areas
- Road and street lighting
- Area and flood lighting
- Tunnel lighting
- High-bay lighting

Electrical input data

Specification item	Value	Unit	Condition
Rated input voltage range	100277	V _{ac}	Performance range, 110277Vac for GL; 100-242Vac for Japan
Rated input voltage	230	V _{ac}	
Rated input frequency range	4763	Hz	Performance range
Rated input current	0.68	А	@ rated output power @ rated input voltage
Max. input current	1.65	А	@ rated output power @ minimum performance input voltage
Rated input power	165	W	@ rated output power @ rated input voltage, 146W for Japan
Power factor	0.95		@ rated output power @ rated input voltage
Total harmonic distortion	10	%	@ rated output power @ rated input voltage
Efficiency	92	%	@ rated output power @ rated input voltage @ max. Uout
Input voltage AC range	85305	V _{ac}	Safety Operational range
Input frequency AC range	4566	Hz	Operational range
Isolation input to output	Basic		

Electrical output data

Specification item	Value	Unit	Condition
Regulation method	Constant Current		
Output voltage	71214	V _{dc}	71-186V for Japan
Output voltage max.	320	V	Maximum output voltage (rms)
Output current	0.31.05	A	
Output current min programmable	300	mA	
Output current min dimming	70	mA	
Output current tolerance ±	5	%	
Output current ripple LF	≤ 4	%	Ripple = peak / average@ ≤1KHz
Output current ripple HF	≤ 15	%	
Output P _{st} ^{LM}	≤ 0.03		In entire operating window
Output SVM	≤ 0.07		In entire operating window
Output power	5150	W	5-130W for Japan

Electrical data controls input

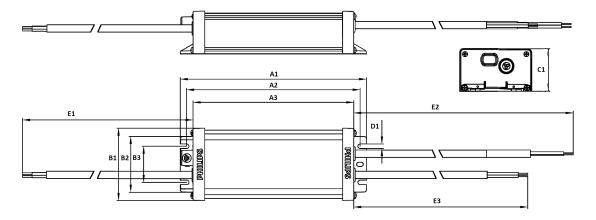
Specification item	Value	Unit	Condition
Control method	1-10V, Dynadimmer		Default: 1-10V. Optional: reversed 1-10V, reversed 0-5V
Dimming range	10100	%	Default range
Isolation controls input to output	Basic		acc. IEC61347-1

Wiring and Connections

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

Dimensions and weight

Specification item	Value	Unit	Tolerance (mm)	
Length (A1)	200	mm	±1	
Mounting hole distance (A2)	188	mm	±1	
Length (A3)	176	mm	±1	
Width (B1)	68	mm	± 0.5	
Width (B2)	52	mm	± 0.5	
Width (B3)	34	mm	± 0.3	
Height (C1)	40	mm	±1	
Mounting hole diameter (D1)	4.2	mm	± 0.2	
Input cable length (E1)	450	mm	± 30	
Output cable length (E2)	450	mm	± 30	
Control cable length (E3)	300	mm	± 30	
Weight	876	gram		



Logistical data

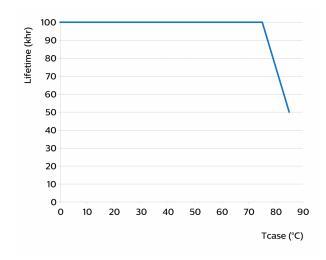
Specification item	Value
Product name	Xi LP 150W 0.3-1.05A S1 GL I200
EOC	871951431700000
Logistic code 12NC	9114 018 33590
EAN1 (GTIN)	8719514317000
EAN3	8719514317017
Pieces per box	12

Operational temperatures and humidity

Specification item	Value	Unit	Condition
Ambient temperature	-40+55	°C	-40~55°C @ 100-242Vac for Japan;
			-40~55°C @ 110-240Vac and -40~60°C @ 240-277Vac for Global;
			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	75	°C	Measured at T _{case} -point
Maximum housing temperature	130	°C	In case of a failure, inherent by design
Relative humidity	1095	%	Non-condensing

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+80	°C	
Relative humidity	595	%	Non-condensing

Programmable features

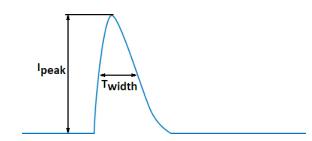
Specification item	Available	Default setting	Condition
Set Adjustable Output Current (AOC)	SimpleSet	700 mA	
Constant Light Output (CLO)	Yes		
1-10V	Yes		Default: 1-10V. Optional: reversed 1-10V, reversed 0-5V
Dynadimmer	Yes		

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	per IEC60598
Overtemperature protection	Yes	Automatic recovering
Diagnostics	Yes	

Inrush current

Specification item	Value	Unit	Condition
Inrush current I _{peak}	55	Α	Input voltage 230V
Inrush current T _{width}	530	μs	Input voltage 230V, measured at 50% I _{peak}
Drivers / MCB 16A type B	≤ 4	pcs	Indicative value



МСВ	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)	0.7	mA rms	Acc. IEC60598-1. LED module contribution not included

Surge immunity

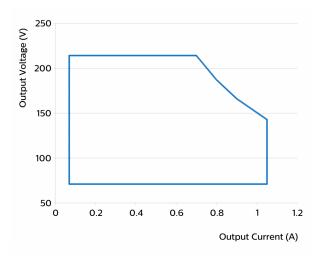
	Specification item	Value	Unit	Condition
	Mains surge immunity (diff. mode)	6	kV	Acc. IEC61000-4-5. 2 Ohm, 1.2/50us, 8/20us
	Mains surge immunity (comm. mode)	10	kV	Acc. IEC61000-4-5. 12 Ohm 1.2/50us,8/20us

Application Info

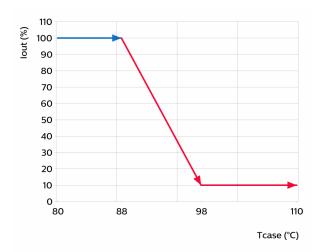
Specification item	Value
Approval marks	CB / CCC / CE / EAC / ENEC / PSE / RCM / RU / UA
Ingress Protection classification (IP)	67

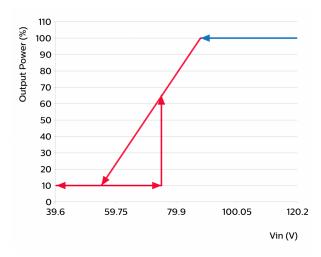
Graphs

Operating window

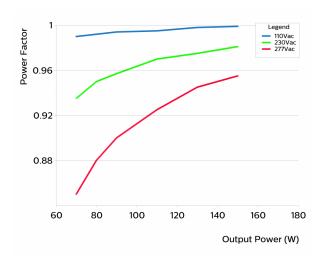


Thermal Guard

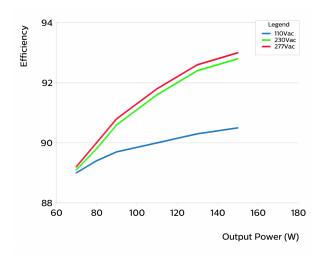




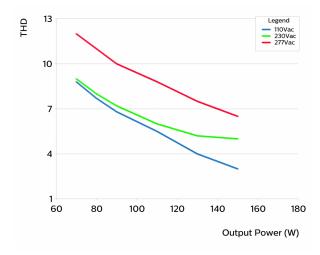
Power factor versus output power



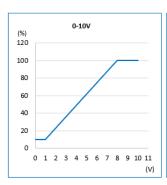
Efficiency versus output power

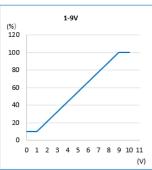


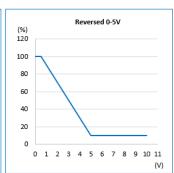
THD versus output power

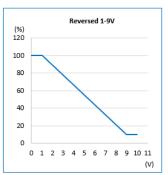


I_{out} as function of 1-10V interface









Note:

 $During \ reversed \ dimming \ mode, \ when \ the \ DIM+/DIM- \ is \ open, \ the \ driver \ will \ be \ at \ maximum \ output \ current.$



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