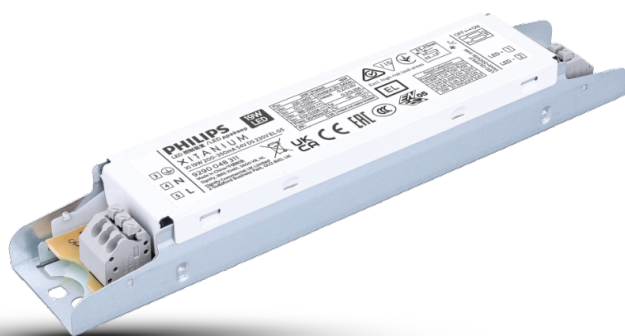




DATASHEET

interlight driver 19W
IL-X5D19



FEATURES

Interlight X5 non-isolated Dip Switch Linear LED drivers have 4 output currents, offer industry leading performance and reliability at optimized cost. These drivers offer the same level of performance as Xitanium adjustable output current linear drivers to ensure high quality of light. Xitanium drivers have common features such as low ripple output current, adjustable output current by dip switch and EL function. They are specifically designed to ensure great EMI performance, high robustness and safe usage.

Features

- Class I application
- Low Ripple less than 4%
- 4 output currents by Dip switch
- High efficiency, high Pf, low THD
- EL function
- 100,000 hours lifetime @ Tc-life

Benefits

- Provides options for different luminaire designs
- Comfortable for the eyes
- Selectable output current enables flexibility and SKU reduction
- Energy saving
- Peace of mind with proven reliability

Application

- Waterproof lighting
- Recessed, surface and suspended linear lighting



Logistical data

Specification item	Value
Product name	IL-X519D 19W 200-350mA 54V DS 230V EL G5
Logistic code	12NC 9290 048 31101
Pieces per box 50	Weight 91.5 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	50...60	Hz	Performance range
Rated input current	0.1	A	@ rated output power @ rated input voltage
Rated input power	21.0	W	@ rated output power @ rated input voltage
Power factor	0.95		@ max output power @ rated input voltage
Total harmonic distortion	15	%	@ max output power @ rated input voltage
Efficiency	86.0	%	@ rated output power @ rated input voltage @ max output voltage
Rated input voltage DC	186...250	Vdc	Performance range
Rated input current DC	0.03...0.12	Adc	Performance range
Input voltage AC	198...264	Vac	Operational range
Input frequency AC 4	5...66	Hz	Operational range
Input voltage DC	168...275	Vdc	Operational range
Isolation input to output	No		

Electrical output data

Specification item	Value	Unit	Condition
Regulation method	Constant Current		
Output voltage	30...54	Vdc	
Output voltage max.	220	V	Maximum output voltage (rms)
Output current	200 / 250 / 300 / 350	mA	Select output current via the dipswitch (EOFi=0.95)
Output current tolerance	± 8	%	@full load
Output current ripple LF	≤ 4	%	Ripple = peak / average < 3kHz
Output current ripple HF	≤ 15	%	Ripple = peak / average total
Output Pst LM	≤ 0.1		In entire operating window
Output SVM	≤ 0.1		In entire operating window
Output power	6.0...18.9	W	
Rated output power	18.9	W	

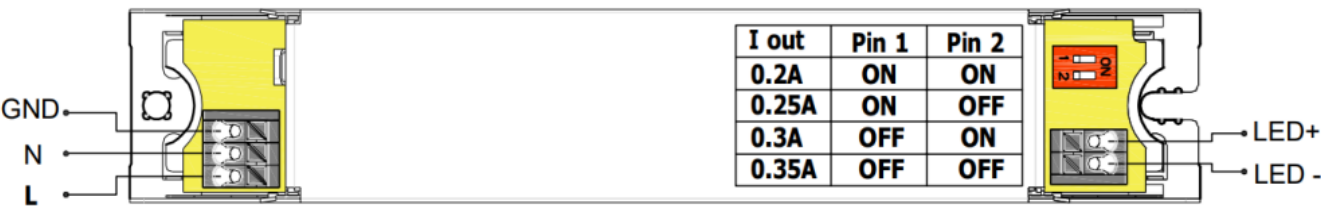
Control interfaces

Specification item	Value	Unit	Condition
Control method	Fixed		Select output current via the dipswitches



Wiring and connections

Specification item	Value	Unit	Type
Input wire cross-section	0.5...1.5 / 20...16	mm2 / AWG s	olid / stranded wire
Input wire strip length	8.5...9.5	mm	
Output wire cross-section	0.5...1.5 / 20...16	mm2 / AWG	solid / stranded wire
Output wire strip length	8.5...9.5	mm	
Maximum cable length	2	m	Total length of wiring including LED module, one wayay

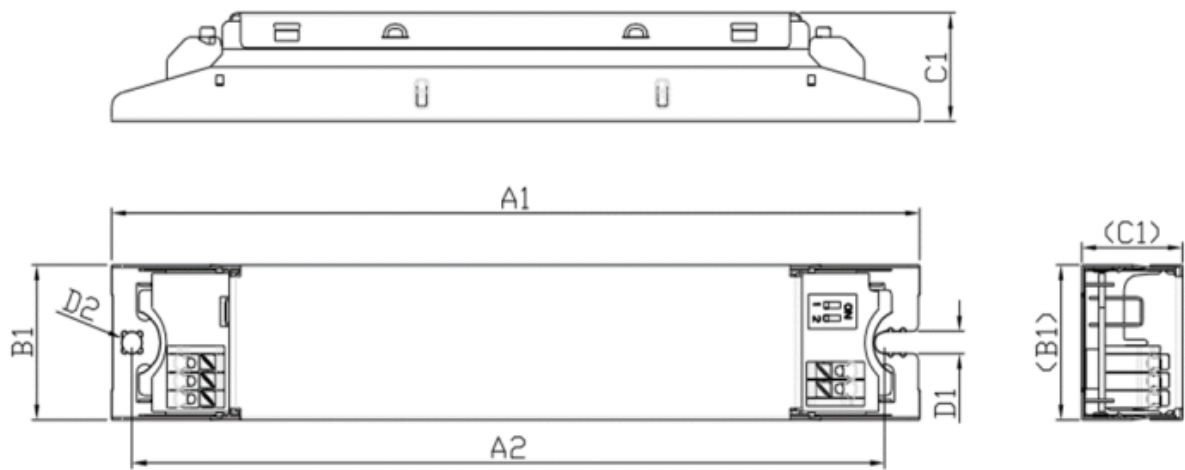


Isolation

Insulation per IEC61347-1	Input	Output	Housing
Input	-	Non	Basic
Output	Non	-	Basic
Housing	Basic	Basic	-

Dimensions and weight

Specification item	Value	Unit	Tolerance (mm)
Length (A1)	168	mm	
Mounting hole distance (A2)	156.4	mm	
Width (B1)	30	mm	
Height (C1)	21	mm	
Mounting hole diameter (D1)	4.3	mm	
Mounting hole diameter (D2)	4.3	mm	
Weight	91.5	gram	
Housing color	White		



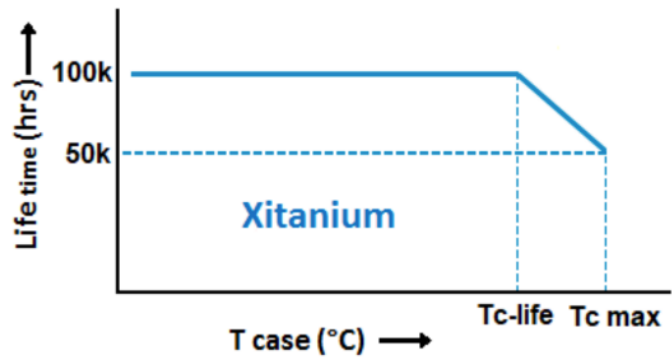
Operational temperatures and humidity

Specification item	Value	Unit	Condition
Ambient temperature	-30...+55	°C	
Tcase-max	75	°C	Maximum temperature measured at Tcase-point
Tcase-life	65	°C	Measured at Tcase-point
Maximum housing temperature	110	°C	In case of a failure, inherent by design
Relative humidity	10...90	%	Non-condensing



Lifetime

Specification item	Value	Unit	Condition
Driver lifetime	100,000	hours	Measured temperature at Tcase-point is Tcase-life. Maximum failures = 10%



Maximum failures = 10%

Storage temperature and humidity

Specification item	Value	Unit	Condition
AAmbient temperature	-30...+85	°C	
Relative humidity	5...95	%	Non-condensing

Programmable features

Specification item	Available	Default setting	Condition
Set Adjustable Output Current (AOC)	DipSwitch	350 mA	Manual set the output current via the dipswitches, see wiring diagram for an overview

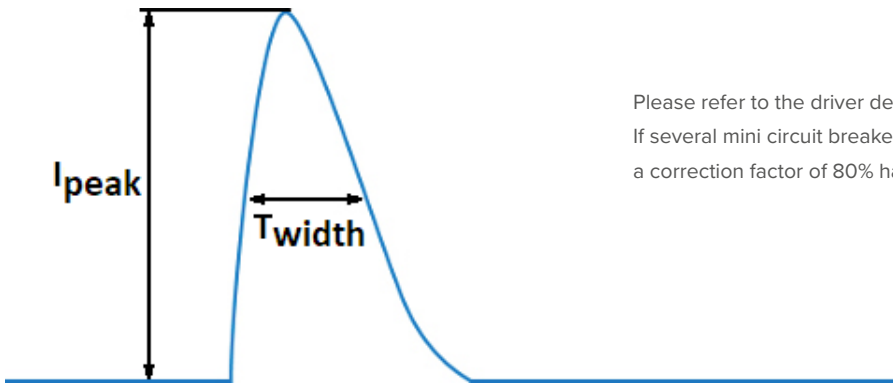
Non-programmable features

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



Inrush current

Specification item	Value	Unit	Condition
Inrush current	14.6	A	Input voltage 230V
Inrush peak width	228	µs	Input voltage 230V, measured at 50% height
Drivers / MCB 16A type B @230V AC	≤ 34	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 Protective Conductor Current (ins. Class I)	0.5	mA rms	Acc. IEC60598-1. LED module contribution not included

Surge immunity

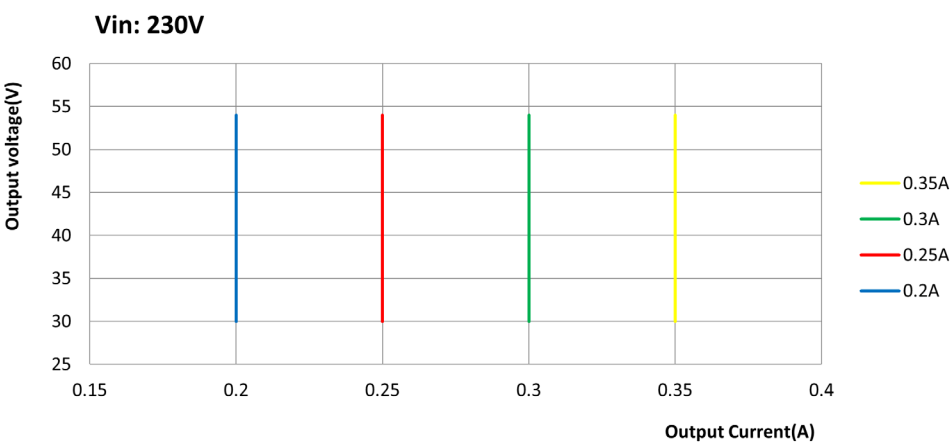
Specification item	Value	Unit	Condition
Mains surge immunity (diff. mode)	1	kV	Acc. IEC61000-4-5. 2 Ohm, 1.2/50us, 8/20us
Mains surge immunity (comm. mode)	2	kV	Acc. IEC61000-4-5. 12 Ohm, 1.2/50us, 8/20us

Application Info (Approbation)

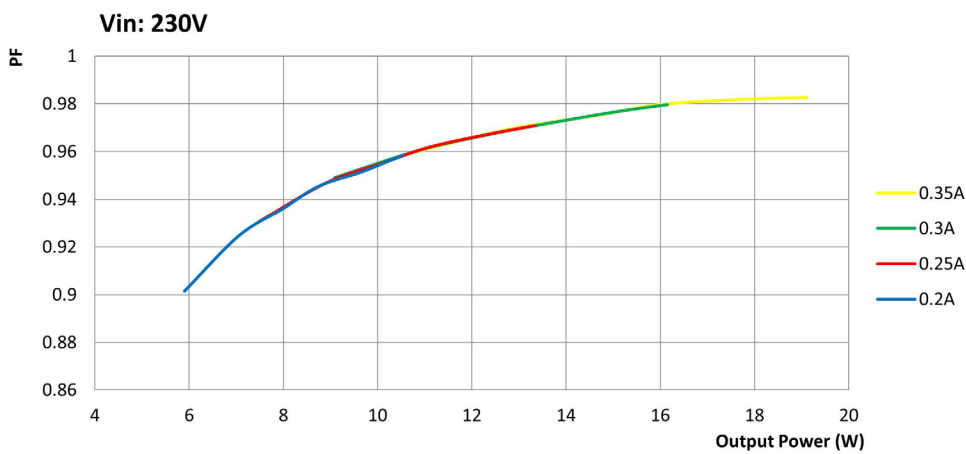
Specification item	Value
Approval marks and Certifications	CB
Ingress Protection classification (IP)	20
Application	Indoor Linear
Mounting Type	Built-in



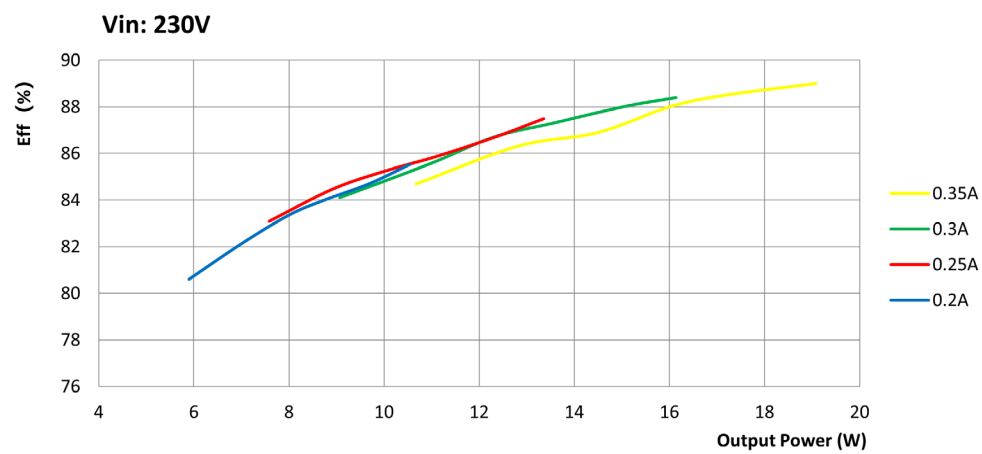
Operating window



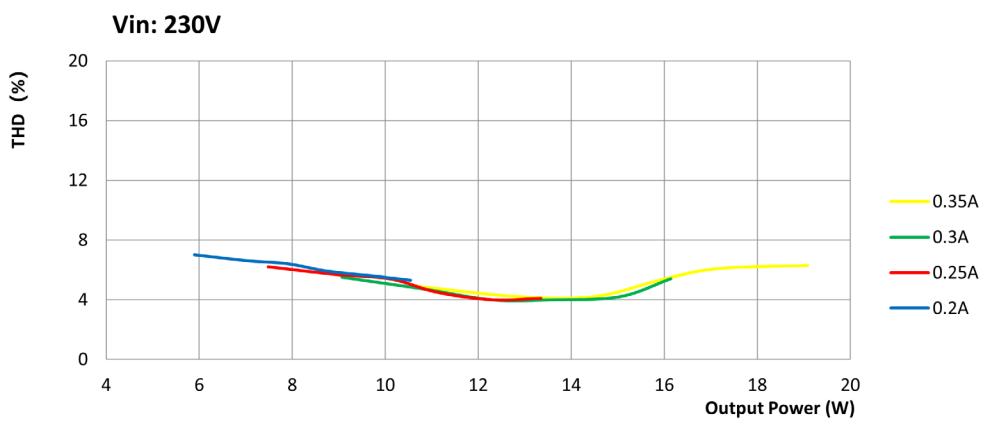
Power factor versus output power



Efficiency versus output power



THD versus output power





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