



Datasheet

Xitanium non-isolated Fixed Output SimpleSet with CLO

Xitanium 100W 0.25-0.7A 220V S21 230V

9290 021 16106

Xitanium non-isolated Fixed Output SimpleSet drivers with CLO programming offer quality of light, reliability and low energy consumption. By using Xitanium LED drivers in your luminaires, you can be sure to offer your customers high quality of light without visual flicker and stroboscopic effects.

With the Constant Lumen Output (CLO) feature you can ensure that the light output of your luminaire remains stable over time.

The reliability of your complete lighting system is enhanced as our drivers offer specific features that protect the connected LED module, including reduced ripple current. Finally, the Constant Lumen Output feature enables lower energy consumption as power is optimized over the lifecycle of the luminaire.

Benefits

- High quality of light
- Constant light output over time
- High reliability
- Lower energy consumption
- Fast and easy wireless programming with SimpleSet

Features

- CLO programming
- Wide operating windows output current can be adjusted via SimpleSet (NFC)
- High efficiency
- Low output ripple current

Application

- Offices
- Industry
- Retail: supermarkets, shopping malls

Electrical input data

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Specification item	Value	Unit	Condition
Rated input voltage range	220240	V _{ac}	Performance range
Rated input voltage	230	V _{ac}	
Rated input frequency range	5060	Hz	Performance range
Rated input current	0.47	A	@ full output power @ rated input voltage
Rated input power	107	w	@ rated output power @ rated input voltage
Power factor	0.98		@ performance range @ full output power
Total harmonic distortion	9	%	@ performance range @ full output power
Efficiency	93.4	%	@ full output power @ rated input voltage @ max. Uout
Rated input voltage DC range	186250	V _{dc}	Performance range
Input voltage AC range	198264	V _{ac}	Operational range
Input frequency AC range	4566	Hz	Operational range
Input voltage DC range	168275	V _{dc}	Operational range
Isolation input to output	No		

Electrical output data

Specification item	Value	Unit	Condition
Regulation method	Constant Current		
Output voltage	50220	V _{dc}	
Output voltage max.	250	V	Maximum output voltage (rms)
Output current	0.250.7	A	
Output current tolerance ±	5	%	
Output current ripple LF	≤ 4	%	Ripple = peak / average, < 3kHz
Output P _{st} ^{LM}	≤ 0.02		
Output SVM	≤ 0.07		
Output power	28100	W	

Electrical data controls input

Specification item	Value	Unit	Condition
Control method	Fixed		

Wiring and Connections

Specification item	Value	Unit	Туре
Input wire cross-section	0.51.5 / 2016	mm ² / AWG	WAGO744, solid wire
Input wire strip length	89	mm	
Output wire cross-section	0.51.5 / 2016	mm ² / AWG	WAGO744, solid wire
Output wire strip length	89	mm	
Maximum cable length	2	m	Total length of wiring including LED module, one way



Insulation

Insulation per IEC61347-1	Input	Output	Housing
Input		No	Basic
Output	No		Basic
Housing	Basic	Basic	

Dimensions and weight

Specification item	Value	Unit	Tolerance (mm)
Length (A1)	360	mm	
Mounting hole distance (A2)	350	mm	
Width (B1)	30	mm	
Height (C1)	21	mm	
Mounting hole diameter (D1)	4.1	mm	
Weight	260	gram	



Logistical data

Specification item	Value
Product name	Xitanium 100W 0.25-0.7A 220V S21 230V
EOC	871869971787200
Logistic code 12NC	9290 021 16106
EAN1 (GTIN)	8718699717872
EAN3 (box)	8718699717889
Pieces per box	24

Operational temperatures and humidity

Specification item	Value	Unit	Condition
Ambient temperature	-25+50	°C	Higher ambient temperature allowed as long as Tcase-max is not
			exceeded
Tcase-max	75	°C	lifetime 50khrs;
Tcase-life	65	°C	lifetime 100khrs; measured at T _c -point
Maximum housing temperature	110	°C	In case of a failure, inherent by design
Relative humidity	1090	%	Non-condensing

Lifetime





Storage temperature and humidity

Specification item	Value	Unit	Condition
Ambient temperature	-25+85	°C	
Relative humidity	595	%	Non-condensing

Programmable features

Specification item	Available	Default setting	Condition
Set Adjustable Output Current (AOC)	SimpleSet	250 mA	
Constant Light Output (CLO)	Yes	OFF	

Features

Specification item	Value	Condition
Open load protection	Yes	Mains reset needed
Short circuit protection	Yes	Automatic recovering
Over power protection	Yes	Automatic recovering
Hot wiring	No	
Suitable for fixtures with protection class	1	per IEC60598
Output Overvoltage Detection	Yes	

Inrush current

Specification item	Value	Unit	Condition
Inrush current	22.5	A	Input voltage 230V
Inrush peak width	30	μs	Input voltage 230 V, measured at 50% height
Drivers / MCB 16A type B	≤ 23	pcs	Indicative value
Ipeak Twidth			design in guide if you use other MCB-types.

Driver touch current / protective conductor 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

Specification item	Value
Approval marks	CCC / CE / EL / ENEC / TISI
Ingress Protection classification (IP)	20
Application	Indoor Linear
Mounting Type	Built-in

Graphs

Operating window



Power factor versus output power





THD versus output power





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