

Datasheet

Xitanium Isolated Single Current (Dipswitch)

Xitanium 40W 0.3/0.35A 115V 230V

9290 014 87706

Xitanium LED drivers with single current output offer industry leading performance and reliability at optimized cost.

They are ideal for high volume applications while delivering to specific requirements. These drivers offer the same level of performance as Xitanium adjustable current linear drivers to ensure high quality of light, but with a specific current setting for optimized performance. Due to the low output current ripple, you can be sure to offer your customers high quality of light without visual flicker and stroboscopic effects.

Xitanium isolated Single Current drivers are ideal for Low Voltage (LV) linear systems. They offer ease of design-in and make the approbation process easier.

Benefits

- High quality of light -assurance of camera and scanner-friendly performance
- High reliability
- Optimized performance at specific output current settings

Features

- Low output current tolerance
- Low output ripple current
- Long lifetime at high operating temperature
- Easy current selection via dipswitch
- SELV
- Suitable for Class I luminaires

Application

- Offices
- Retail: supermarkets, shopping malls

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 range	5060	Hz	Performance range
Rated input current	0.22	A	@ rated output power @ rated input voltage
Rated input power	45	w	@ 230V @ Full load
Power factor	0.9		@ 230V @ Full load
Total harmonic distortion	15	%	@ 230V @ Full load
Efficiency	89	%	@ 230V @ Full load
Input voltage AC range	198264	V _{ac}	Operational range
Input frequency AC range	47.563	Hz	Operational range
Isolation input to output	SELV		

Electrical output data

Specification item	Value	Unit	Condition
Regulation method	Constant Current		
Output voltage	70115	V _{dc}	
Output voltage max.	120	V	Maximum output voltage (rms)
Output current	0.3 / 0.35	A	Selected by dip-switch
Output current tolerance ±	5	%	
Output current ripple LF	≤ 4	%	Ripple = peak / average, < 3kHz
Output current ripple HF	≤ 4	%	
Output power	2140	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	Type250, solid / stranded wire
Input wire strip length	8.59.5	mm	
Output wire cross-section	0.51.5 / 2016	mm ² / AWG	Type250, solid / stranded wire
Output wire strip length	8.59.5	mm	
Maximum cable length	0.6	m	Total length of wiring including LED module, one way



Insulation

Insulation per IEC61347-1	Input	Output
Input		SELV
Output	SELV	

Dimensions and weight

Specification item	Value	Unit	Tolerance (mm)
Length (A1)	211.5	mm	
Mounting hole distance (A2)	198	mm	
Width (B1)	40	mm	
Height (C1)	30	mm	
Mounting hole diameter (D1)	4.2	mm	
Weight	120	gram	



Logistical data

Specification item	Value
Product name	Xitanium 40W 0.3/0.35A 115V 230V
EOC	871869965786400
Logistic code 12NC	9290 014 87706
EAN1 (GTIN)	8718699657864
EAN3	8718699657871
Pieces per box	20

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	Maximum temperature measured at T _{case} -point
Tcase-life	75	°C	Measured at T _{case} -point
Maximum housing temperature	110	°C	In case of a failure, inherent by design
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%

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)	Manual	350 mA	Selected by dip-switch
Constant Light Output (CLO)	No		
Corridor Mode	No		
DC emergency (DCemDim)	No		

Features

Specification item	Value	Condition
Open load protection	Yes	
Short circuit protection	Yes	Automatic recovering
Over power protection	No	
Hot wiring	No	
Suitable for fixtures with protection class	1	per IEC60598
Energy metering	No	
Diagnostics	No	

Inrush current

Specification item	Value	Unit			Condition
Inrush current I _{peak}	17	A			Input voltage 230V
Inrush current T _{width}	270	μs			Input voltage 230V, measured at 50% I _{peak}
Drivers / MCB 16A type B	≤ 30	pcs			Indicative value
			МСВ	Rating	Relative number of LED drivers
			В	4A	25%
			В	6A	40%
Ipeak Turidth			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%

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

С

С

С

С

20A

25A

32A

40A

208%

260%

340%

415%

Surge immunity

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

Application Info

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

Graphs



Power factor versus output power



Efficiency versus output power







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