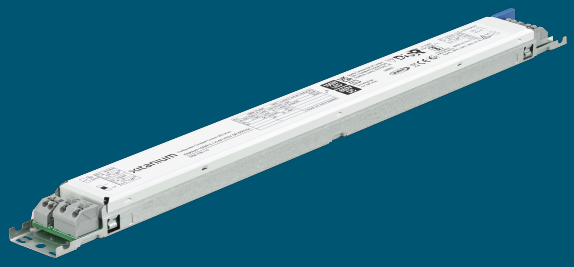
Xitanium

Datasheet



Xitanium 100W 0.1-0.4A 375V SR 650Vdc
9290 039 11906

No description available.

Logistical data

Specification item	Value
Product name	Xitanium 100W 0.1-0.4A 375V SR 650Vdc
EOC	872016936991700
Logistic code 12NC	9290 039 11906
EAN1 (GTIN)	8720169369917
EAN3 (box)	8720169369924
Pieces per box	10
Weight	265 gram

Electrical output data

Specification item	Value	Unit	Condition
Regulation method	Constant Current		
Output voltage	100...375	V_{dc}	
Output voltage max.	420	V	Maximum output voltage (rms)
Output current	100...400	mA	
Output current min programmable	100	mA	
Min output current	5	mA	
Output current tolerance ±	3	%	
Output current ripple LF	≤ 4	%	Ripple = peak / average, < 3kHz
Output P_{st}^{LM}	≤ 1.0		
Output SVM	≤ 0.6		
Output power	20.0...100.0	W	

Control interfaces

Specification item	Value	Unit	Condition
Control method			
Dimming range	5...100	%	Default range
Isolation controls input to output	Double		acc. IEC61347-1
SR Power Supply max voltage.	22.5	V	
SR output current	52	mA	
SR Power Supply max current source	60	mA	

Wiring and Connections

Specification item	Value	Unit	Type
Maximum cable length	6	m	Total length of wiring including LED module, one way

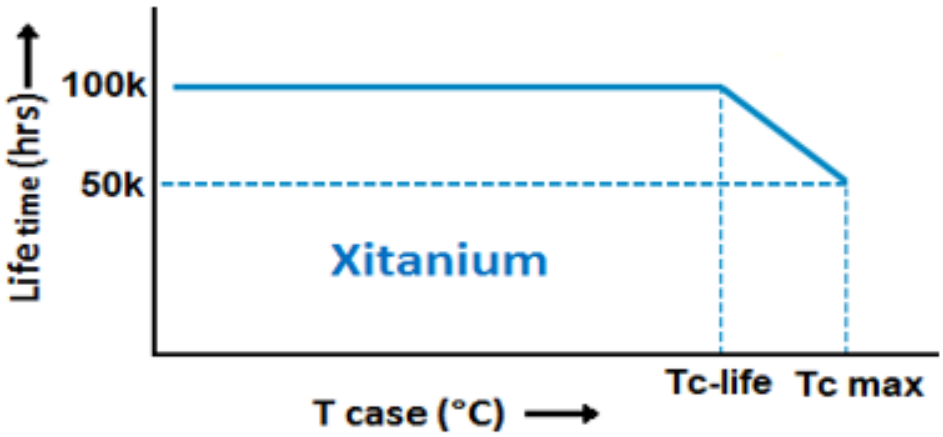
⚠ **Warning:** the red-highlighted connection between SRG and PE terminals **must** be established permanently in the application for surge immunity reasons. This connection is only to be removed temporarily during dielectric strength testing and to be removed permanently in case an external SPD is added.

Operational temperatures and humidity

Specification item	Value	Unit	Condition
Ambient temperature	-30...+60	ºC	Higher ambient temperature allowed as long as Tcase-max is not exceeded
Tcase-max	90	ºC	Lifetime 50 khrs
Tcase-life	75	ºC	Lifetime 100khrs; measured at Tc-point measured at T_c-point
Maximum housing temperature	110	ºC	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.
Driver lifetime Tcmax	0	hours	Measured temperature at Tcase-point is Tcase-life. Maximum failures = 10%
Mains switching cycles	> 100,000	switches	See Design-in guide for detailed explanation



Maximum failures = 10%

Temperature [°C]	Lifetime	Unit	Condition
90	50000	hr	
82.5	71000	hr	
75	100000	hr	Temperature measured @Tc point
70	>100000	hr	
65	>100000	hr	

Storage temperature and humidity

Specification item	Value	Unit	Condition
Ambient temperature	-40...+85	ºC	
Relative humidity	5...95	%	Non-condensing

Programmable features

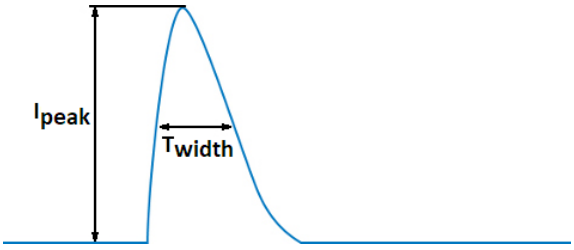
Specification item	Available	Default setting	Condition
Adjustable Light Output (ALO)	Yes	OFF	
Constant Light Output (CLO)	Yes	OFF	
Min Dim Level (%)	Yes		
DC emergency (DCemDim)	No		
DALI 102	Yes		Programmable via MultiOne

Non-programmable features

Specification item	Value	Condition
Open load protection	Yes	Automatic recovering / 5 times retry
Short circuit protection	Yes	Automatic recovering
Over power protection	Yes	Automatic recovering
Hot wiring	No	
Suitable for fixtures with protection class	I	per IEC60598
Output Overvoltage Detection	Yes	
Energy metering (DALI part 252)	Yes	Accuracy 4%
Diagnostics (DALI part 253)	Yes	

Inrush current

Specification item	Value	Unit	Condition
Inrush current	4	A	Input voltage 230V
Inrush current	9	A	Input voltage V
Inrush peak width	700	µs	Input voltage 230V, measured at 50% height
Inrush peak width	400	µs	Input voltage V, measured at 50% height
Drivers / MCB 16A type B @230V AC	≤ 22	pcs	Input voltage 230V
Drivers / MCB 16A type B @400V AC	≤ 22	pcs	Input voltage 400V



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

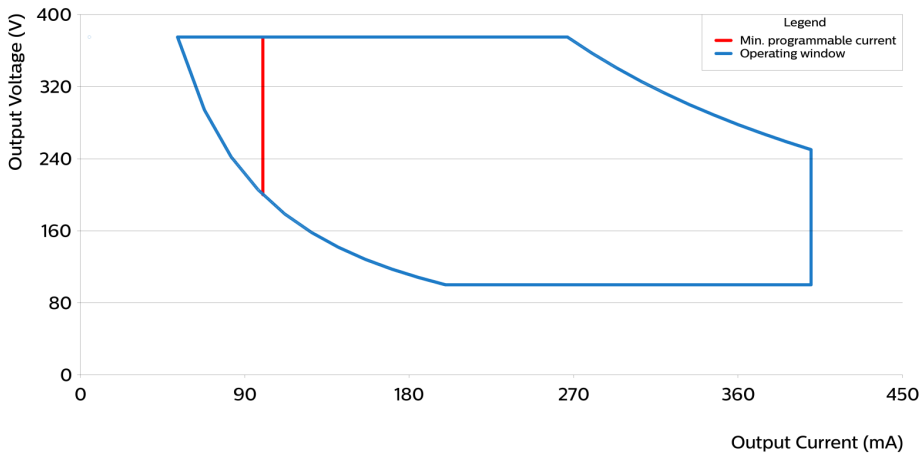
Specification item	Value	Unit	Condition
Mains surge immunity (diff. mode)	2	kV	Acc. IEC61000-4-5. 2 Ohm, 1.2/50us, 8/20us
Mains surge immunity (comm. mode)	4	kV	Acc. IEC61000-4-5. 12 Ohm 1.2/50us,8/20us
Control surge immunity (diff. mode)	0.8	kV	Acc. IEC61000-4-5. 2 Ohm, 1.2/50us, 8/20us
Control surge 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	CE / D4i / DALI 2 / ENEC / SR / WEEE
Ingress Protection classification (IP)	IP20

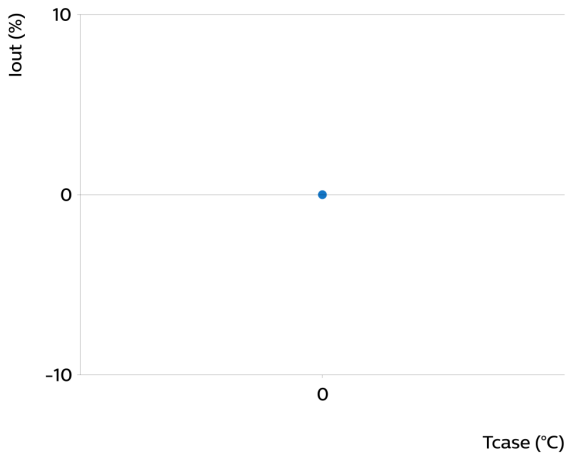
Graphs

Operating window



Type	Output current (mA)	Min. output voltage (V)	Max. output voltage (V)	Max. output power (W)
Xitanium 100W 0.1-0.4A 375V SR 650Vdc	100	200	375	37.5
Xitanium 100W 0.1-0.4A 375V SR 650Vdc	150	133	375	56.25
Xitanium 100W 0.1-0.4A 375V SR 650Vdc	200	100	375	75
Xitanium 100W 0.1-0.4A 375V SR 650Vdc	250	100	375	93.75
Xitanium 100W 0.1-0.4A 375V SR 650Vdc	300	100	333	100
Xitanium 100W 0.1-0.4A 375V SR 650Vdc	350	100	285	100
Xitanium 100W 0.1-0.4A 375V SR 650Vdc	400	100	250	100

Thermal Guard



Efficiency versus output power