Xitanium

Datasheet

Xitanium LED drivers – spot- and downlight SELV Independent



Xitanium 36W WH 0.3-1.05A 54V Is G2
9290 014 71106

Enabling future-proof LED technology

Our Xitanium programmable window LED drivers ensure OEMs have complete flexibility and control in producing high quality luminaires. Available in application-dedicated form factors use and independent applications, our LED point drivers provide further customization via wide operating windows. Additionally, almost all drivers feature the following specifications: SELV, improved ripple current, temperature derating, – providing OEMs the tools to produce, and even alter later if necessary, premium downlights and spotlights.

Benefits

- High reliability underpinned by 5 year warranty
- Future-proof flexibility - application-oriented operating windows enable LED generation and complexity management
- Compatibility - can also be used for other manufacturers' modules or OEMs' own PCB designs

Features

- Operating windows - output current can be adjusted via the Philips MultiOne configurator ('TD' drivers) or with a resistor outside the driver or SimpleSet
- Power ratings: 10-75W
- Choice of housing designs -linear housing for tracks in '3 in 1' in design, conventional HID housings for down and Spotlighting and WH housing for independent use with strain relief and loop through

Application

- Retail
- Office

Logistical data

Specification item	Value
Product name	Xitanium 36W WH 0.3-1.05A 54V Is G2
EOC	871869961042500
Logistic code 12NC	9290 014 71106
EAN1 (GTIN)	8718699610425
EAN3 (box)	8718699610432
Pieces per box	20
Weight	202 gram

Electrical input data

Specification item	Value	Unit	Condition
Rated input voltage range	220...240	V_{ac}	Performance range
Rated input voltage	230	V_{ac}	
Rated input frequency	50...60	Hz	Performance range
Rated input current	0.21	A	@ rated output power @ rated input voltage
Rated input power	44.0	W	@ rated output power @ rated input voltage
Power factor performance range	≥ 0.90 C		@ full output power @ rated input voltage@ rated output power @ rated input voltage
Total harmonic distortion	20	%	@ full output power @ rated input voltage
Efficiency	86.7	%	@ full output power @ rated input voltage @ max. Iout
Rated input voltage DC	186...250	V_{dc}	Performance range
Rated input current DC	≤ 0.23	A_{dc}	Performance range
Input voltage AC	198...264	V_{ac}	Operational range
Input frequency AC	45...66	Hz	Operational range
Input voltage DC	168...275	V_{dc}	Operational range
Isolation input to output	SELV		

Electrical output data

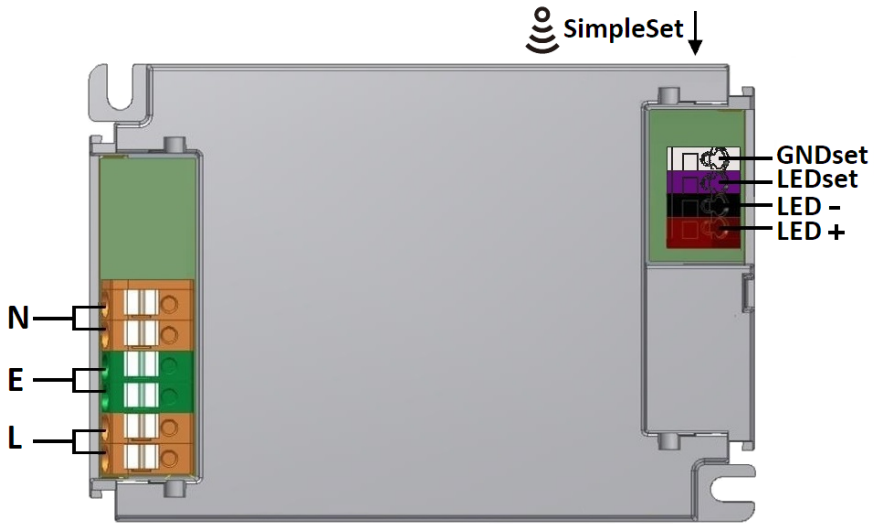
Specification item	Value	Unit	Condition
Regulation method	Constant Current		
Output voltage	24...54	V_{dc}	
Output voltage max.	60	V	Maximum output voltage (rms)
Output current	300...1050	mA	
Output current min programmable	300	mA	
Output current tolerance ±	5	%	@ full load
Output current ripple LF	≤ 4	%	Ripple = peak / average, < 3kHz
Output P_{st}^{LM}	≤ 0.3		
Output SVM	≤ 0.3		
Output power	11.0...36.0	W	

Control interfaces

Specification item	Value	Unit	Condition
Control method	Fixed		

Wiring and Connections

Specification item	Value	Unit	Type
Input wire cross-section	0.75...2.5 / 18...14	mm² / AWG	solid / stranded wire
Input wire strip length	10...11	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	0.6	m	Total length of wiring including LED module, one way
Loop Through	Input		

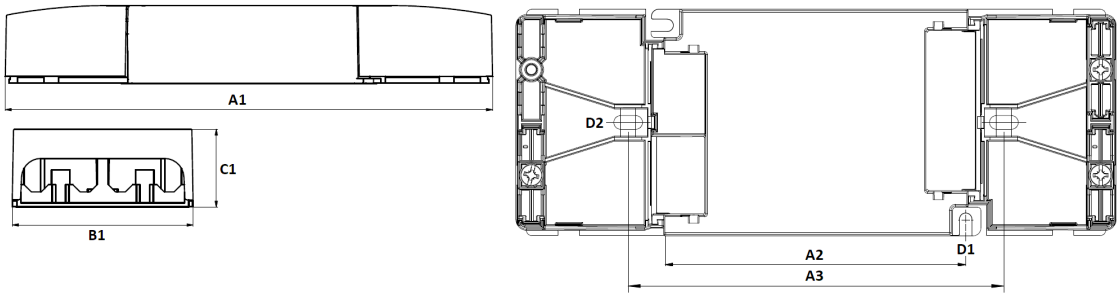


Isolation

Insulation per IEC61347-1	Input	Output+LEDset
Input	-	SELV
Output+LEDset	SELV	-

Dimensions and weight

Specification item	Value	Unit	Tolerance (mm)
Length (A1)	200	mm	
Mounting hole distance (A2)	99.5	mm	
Length (A3)	123	mm	
Width (B1)	75	mm	
Width (B2)	64.5	mm	
Height (C1)	32	mm	
Mounting hole diameter (D1)	4.1	mm	
Mounting hole diameter (D2)	4.1	mm	
Weight	202	gram	

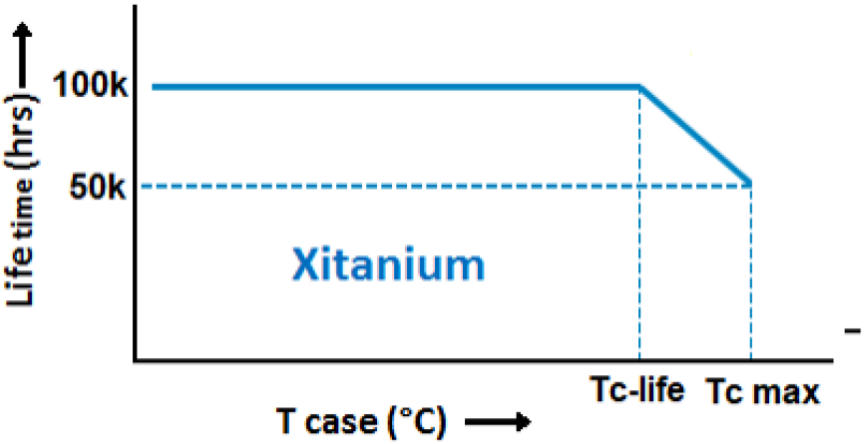


Operational temperatures and humidity

Specification item	Value	Unit	Condition
Ambient temperature	-20...+50	°C	Higher ambient temperature allowed as long as Tcase-max is not exceeded
Tcase-max	80	°C	Maximum temperature measured at T_{case}-point
Tcase-life	80	°C	Measured at T_{case}-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	50,000	hours	Measured temperature at Tcase-point is Tcase-life. Maximum failures = 10%



Maximum failures = 10%

Temperature [°C]	Lifetime	Unit	Condition
80	50000	hr	Temperature measured @Tc point
75	>50000	hr	
70	>50000	hr	

Storage temperature and humidity

Specification item	Value	Unit	Condition
Ambient temperature	-25...+85	°C	
Relative humidity	5...95	%	Non-condensing

Programmable features

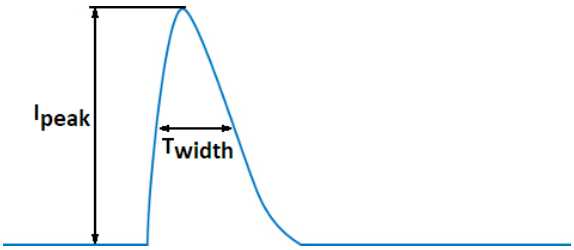
Specification item	Available	Default setting	Condition
Set Adjustable Output Current (AOC)	LEDset, SimpleSet	300 mA	If the output current is set via LEDset, do not leave open / short-circuit. See Design-In Guide for resistor value table.
DC emergency (DCemDim)	No		With a DC mains the output current is 100%. (EOFi)

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 and II	per IEC60598

Inrush current

Specification item	Value	Unit	Condition
Inrush current	4.4	A	Input voltage 230V
Inrush peak width	25	µs	Input voltage 230V, measured at 50% height
Drivers / MCB 16A type B @230V AC	≤ 36	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 Touch Current (ins. Class II)	0.7	mA peak	Acc. IEC61347-1. LED module contribution not included

Surge immunity

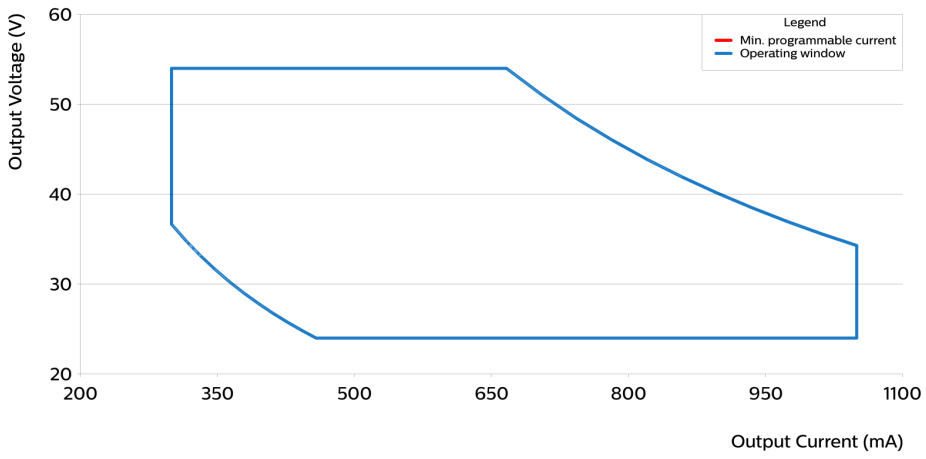
Specification item	Value	Unit	Condition
Mains surge immunity (diff. mode)	1	kV	L-N acc. IEC61000-4-5. 2 Ohm, 1.2/50us, 8/20us
Mains surge immunity (comm. mode)	2	kV	L/N - GND acc. IEC61000-4-5. 12 Ohm, 1.2/50us, 8/20us

Application Info (Approbation)

Specification item	Value
Approval marks and Certifications	CCC / CE / EL / ENEC / SELV
Ingress Protection classification (IP)	20
Application	Indoor Point
Mounting Type	Built-in / Independent

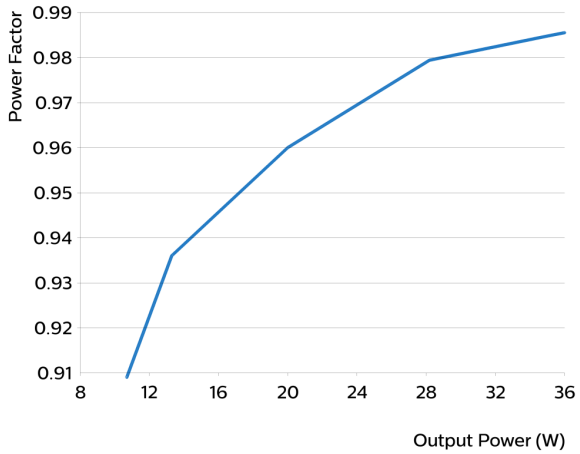
Graphs

Operating window

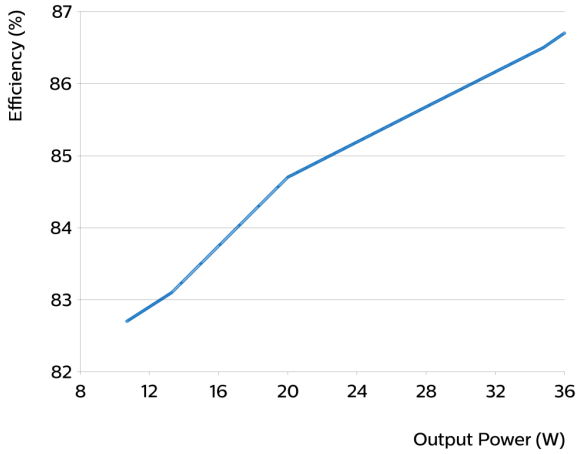


Type	Output current (mA)	Min. output voltage (V)	Max. output voltage (V)	Max. output power (W)
Xitanium 36W WH 0.3-1.05A 54V Is G2	300	36	54	16.2
Xitanium 36W WH 0.3-1.05A 54V Is G2	350	31	54	18.9
Xitanium 36W WH 0.3-1.05A 54V Is G2	400	27	54	21.6
Xitanium 36W WH 0.3-1.05A 54V Is G2	450	24	54	24.3
Xitanium 36W WH 0.3-1.05A 54V Is G2	500	24	54	27
Xitanium 36W WH 0.3-1.05A 54V Is G2	550	24	54	29.7
Xitanium 36W WH 0.3-1.05A 54V Is G2	600	24	54	32.4
Xitanium 36W WH 0.3-1.05A 54V Is G2	650	24	54	35.1
Xitanium 36W WH 0.3-1.05A 54V Is G2	700	24	51	36
Xitanium 36W WH 0.3-1.05A 54V Is G2	750	24	48	36
Xitanium 36W WH 0.3-1.05A 54V Is G2	800	24	45	36
Xitanium 36W WH 0.3-1.05A 54V Is G2	850	24	42	36
Xitanium 36W WH 0.3-1.05A 54V Is G2	900	24	40	36
Xitanium 36W WH 0.3-1.05A 54V Is G2	950	24	37	36
Xitanium 36W WH 0.3-1.05A 54V Is G2	1000	24	36	36
Xitanium 36W WH 0.3-1.05A 54V Is G2	1050	24	34	36

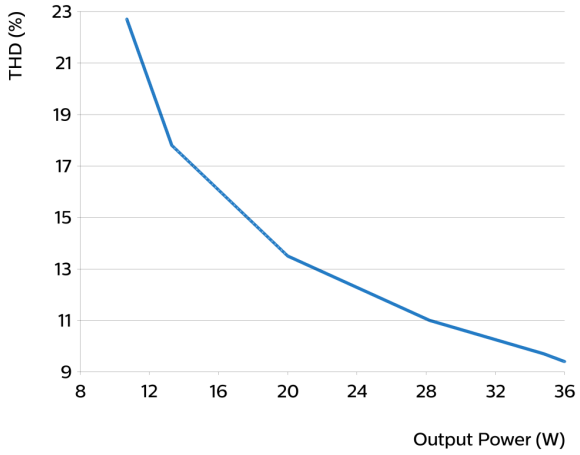
Power factor versus output power



Efficiency versus output power



THD versus output power



Notes

Max. numbers of drivers for Loop through ≤36 PCS at the rated input voltage range.

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