



## Datasheet

### Xitanium track DALI adaptor drivers (3C)

Xitanium 42W/a 0.3-1.05A 48V TD 3CW

9290 034 25706

Xitanium 42W/a 0.3-1.05A 48V TD 3CB

9290 034 25806

Xitanium 42W/a 0.3-1.05A 48V TD 3CG

9290 034 25906

#### Enabling future-proof LED technology

Philips Xitanium LED Point drivers are designed to operate with LED solutions used both in built-in and independent applications such as down light, spot light and track light. Xitanium drivers have common features such as low ripple output current, adjustable output current and 50,000 hours lifetime. They are specifically designed to ensure great EMI performance, high robustness and safe usage.

#### Features

- DALI 2.0 compliant with additional memory banks for energy metering and diagnostics
- Compact size
- Optimized output current choice via dipswitch
- Long lifetime
- Low output current ripple, low input current THD
- Suitable for 3-phase track systems
- Available in white, black and grey housing color

#### Benefits

- Driver design based on Philips experience and knowledge of different applications
- Suitable power option matching common lumen packages/applications
- Track adaptor housing design for compact track luminaire designs

#### Application

- Public buildings (airports, cinemas, theaters, exhibition halls)
- Retail (supermarkets, shops)
- Offices

## Logistical data

Specification item	Value
Product name	Xitanium 42W/a 0.3-1.05A 48V TD 3CW
EOC	872016923687500
Logistic code 12NC	9290 034 25706
EAN1 (GTIN)	8720169236875
EAN3 (box)	8720169236882
Pieces per box	40
Housing color	White (RAL 9003)

Specification item	Value
Product name	Xitanium 42W/a 0.3-1.05A 48V TD 3CB
EOC	872016923689900
Logistic code 12NC	9290 034 25806
EAN1 (GTIN)	8720169236899
EAN3 (box)	8720169236905
Pieces per box	40
Housing color	Black (RAL 9011)

Specification item	Value
Product name	Xitanium 42W/a 0.3-1.05A 48V TD 3CG
EOC	872016923691200
Logistic code 12NC	9290 034 25906
EAN1 (GTIN)	8720169236912
EAN3 (box)	8720169236929
Pieces per box	40
Housing color	Grey (RAL 7040)

## Electrical input data

Specification item	Value	Unit	Condition
Rated input voltage range	220...240	V <sub>ac</sub>	Nominal range
Rated input voltage	230	V <sub>ac</sub>	
Rated input frequency	50...60	Hz	Nominal range
Rated input current	0.22	A	@ rated output power
Rated input power	49.0	W	@ rated output power @ rated input voltage
Power factor	0.9 C		@ performance range @ rated input voltage
Total harmonic distortion	20	%	@ rated output power @ rated input voltage
Efficiency	87.0	%	@ rated input voltage @ rated output power @ max. I <sub>out</sub>
Input voltage AC	198...264	V <sub>ac</sub>	Safety operational range
Input frequency AC	45...66	Hz	Safety operational range
Standby Power (no load)	0.5	W	
Isolation input to output	Reinforced/SELV		

Electrical output data

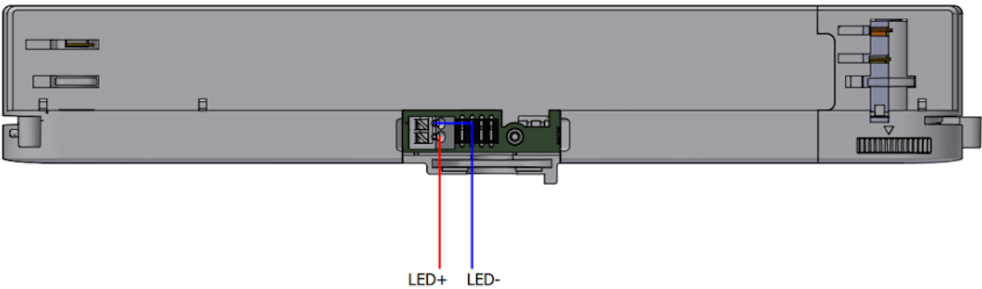
Specification item	Value	Unit	Condition
Regulation method	Constant Current		
Output voltage	5...48	V <sub>dc</sub>	
Output voltage max.	60	V	Maximum output voltage (rms)
Output current	0.3...1.05	A	
Output current min programmable	300	mA	
Output current tolerance ±	5	%	
Output current ripple LF	≤ 4	%	Ripple = peak / average, < 3kHz
Output P <sub>st</sub> <sup>LM</sup>	≤ 1		
Output SVM	≤ 0.4		
Output power	10.0...42.0	W	Performance range

Electrical data controls input

Specification item	Value	Unit	Condition
Control method	Corridor Mode, DALI, Touch & Dim (TD)		DALI parts: 101, 102, 207, 251, 252, 253
Dimming range	1...100	%	Output current min dimming 6mA
Isolation controls input to output	Reinforced		acc. IEC61347-1

Wiring and Connections

Specification item	Value	Unit	Type
Output wire cross-section	0.5...1.5 / 20...16	mm <sup>2</sup> / 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



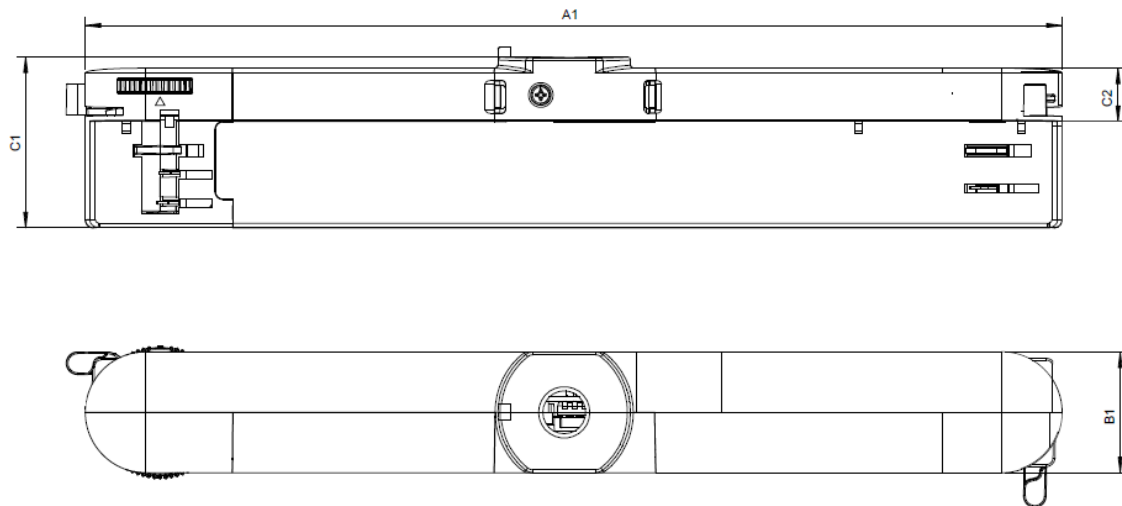
Pout	Iout	1	2	3	4	Pout	Iout	1	2	3	4
14W	300mA	OFF	OFF	OFF	OFF	34W	700mA	ON	OFF	OFF	OFF
17W	350mA	OFF	OFF	OFF	ON	36W	750mA	ON	OFF	OFF	ON
19W	400mA	OFF	OFF	ON	OFF	38W	800mA	ON	OFF	ON	OFF
22W	450mA	OFF	OFF	ON	ON	41W	850mA	ON	OFF	ON	ON
24W	500mA	OFF	ON	OFF	OFF	42W	900mA	ON	ON	OFF	OFF
26W	550mA	OFF	ON	OFF	ON	42W	950mA	ON	ON	OFF	ON
29W	600mA	OFF	ON	ON	OFF	42W	1000mA	ON	ON	ON	OFF
31W	650mA	OFF	ON	ON	ON	42W	1050mA	ON	ON	ON	ON

Isolation

Insulation per IEC61347-1	Input	Output	Control
Input	-	Reinforced/SELV	Basic
Output	Reinforced/SELV	-	Reinforced
Control	Basic	Reinforced	-

## Dimensions and weight

Specification item	Value	Unit	Tolerance (mm)
Length (A1)	251	mm	± 1.5
Width (B1)	31	mm	± 1
Height (C1)	43.8	mm	± 1
Height (C2)	13.7	mm	± 1
Weight	155	gram	

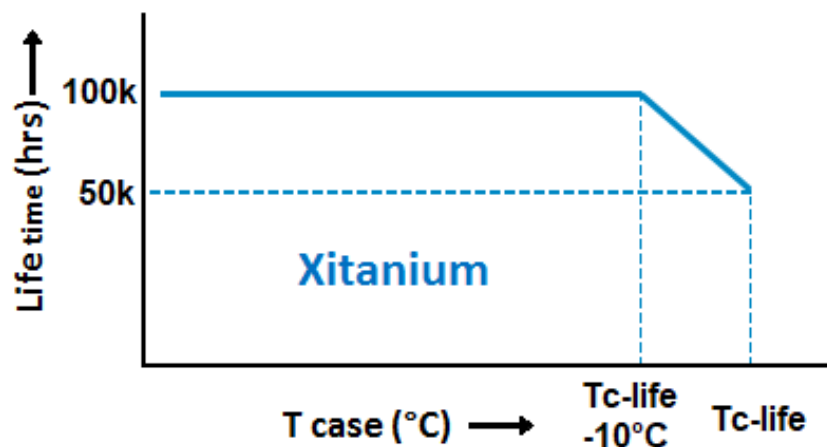


## Operational temperatures and humidity

Specification item	Value	Unit	Condition
Ambient temperature	-20...+35	°C	Higher ambient temperature allowed as long as Tcase-max is not exceeded
Tcase-max	80	°C	Maximum temperature measured at T <sub>case</sub> -point
Tcase-life	80	°C	Measured at T <sub>case</sub> -point
Maximum housing temperature	130	°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%



### 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)	DipSwitch, Programmable	300 mA	Current setting via Dipswitch or MultiOne AOC. Default setting: Dipswitch enabled.
NTC on LEDset	No		
Adjustable Light Output (ALO)	Yes	OFF	
Constant Light Output (CLO)	Yes	OFF	
Touch & Dim (TD)	Yes	ON	
Corridor Mode	Yes	ON	Default: T1=55s, T2=12s, T3=30min
Min Dim Level	Yes		
DC emergency (DCemDim)	No		Light output is 100%.
OEM Write Protection (OWP)	Yes	OFF	
Luminaire Info (DALI part 251)	Yes	—	
Energy metering (DALI part 252)	Yes	—	
Diagnostics (DALI part 253)	Yes		

### 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

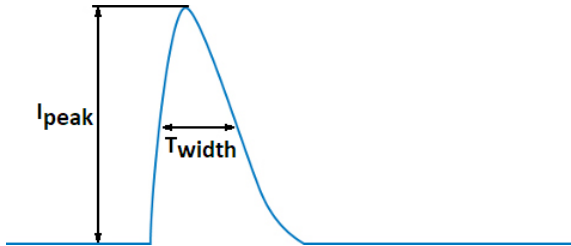
## Inrush current

Specification item	Value	Unit	Condition
Inrush current	8.6	A	Input voltage 230V
Inrush peak width	25	μs	Input voltage 230 V, measured at 50% height
Drivers / MCB 16A type B	≤ 50	pcs	Indicative value at 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

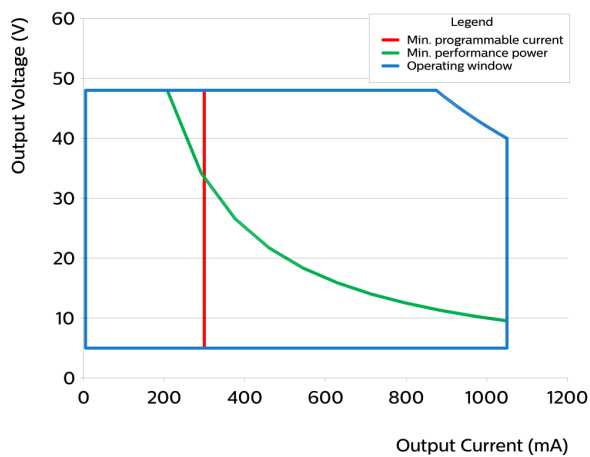
Specification item	Value	Unit	Condition
Mains surge immunity (diff. mode)	1	kV	Acc. IEC61000-4-5. 2 Ohm, 1.2/50us, 8/20us
Mains surge immunity (comm. mode)	2	kV	Acc. IEC61000-4-5. 12 Ohm, 1.2/50us, 8/20us
Control surge immunity (diff. mode)	1	kV	Acc. IEC61000-4-5. 2 Ohm, 1.2/50us, 8/20us
Control surge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

## Application Info

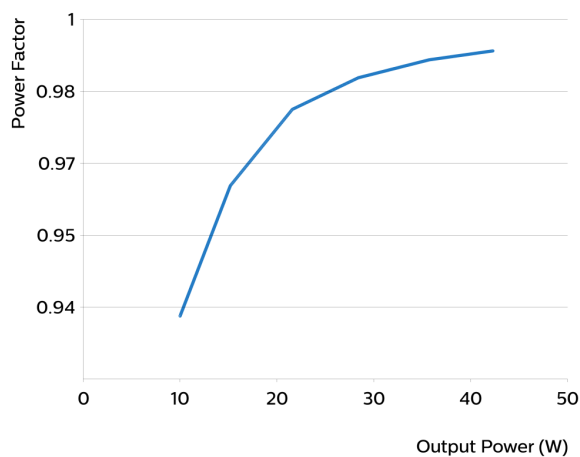
Specification item	Value
Approval marks and Certifications	CE / CQC / DALI 2 / EAC / ENEC / RCM / SELV / UA / UKCA
Ingress Protection classification (IP)	20
Application	Indoor Point
Mounting Type	Track mounting

Graphs

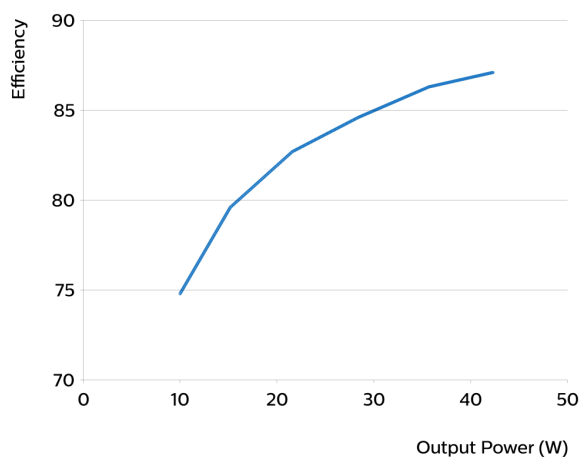
Operating window



Power factor versus output power

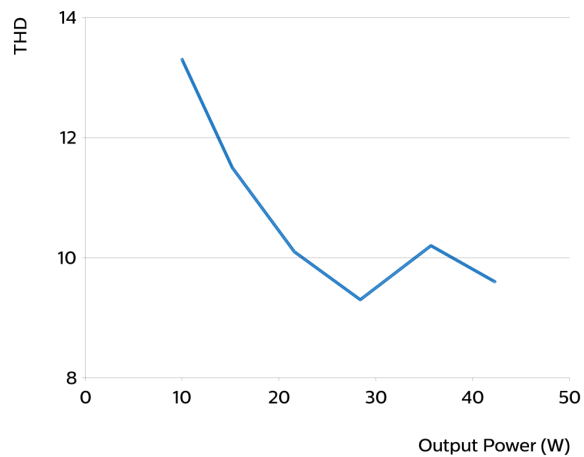


Efficiency versus output power



## THD versus output power

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## Notes

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The adapter is compatible with "Global Trac Pulse XTS", "Stucchi OneTrack 9000" and "Power Gear Pro 3C DALI" tracks.



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