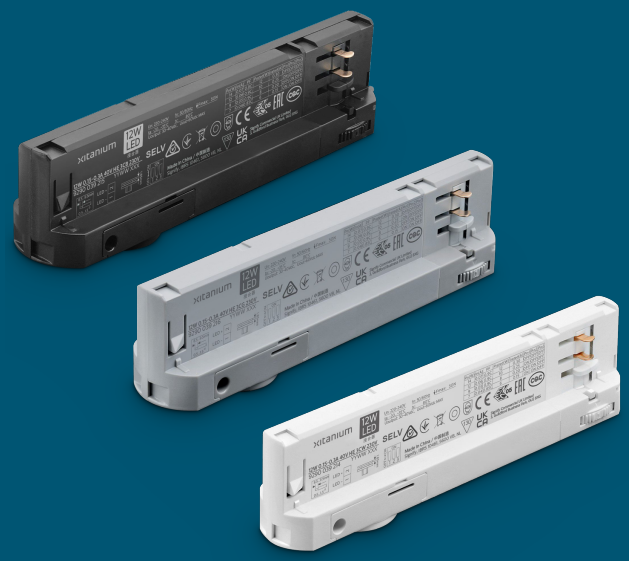
Xitanium

Datasheet

# Xitanium track adaptor drivers

Xitanium 12W 0.15-0.3A 40V HE 3CB 230V
9290 039 21506



### Affordable and reliable LED Drivers

Affordable LED driver range offering Philips reliability. The Xitanium track driver range is compatible with COB and mid-power LEDs from any LED manufacturer.

## Benefits

- Driver design based on Philips experience and knowledge of conventional fluorescent and HID technologies
- Various power ratings matching common lumen packages/applications

## Application

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

## Features

- Compact size
- Specific, optimized dual-output current choice
- Long lifetime
- Low output current ripple, low input current THD
- Suitable for 3-phase track systems

## Logistical data

| Specification item | Value |
|---|---|
| Product name | Xitanium 12W 0.15-0.3A 40V HE 3CB 230V |
| EOC | 872110304335100 |
| Logistic code 12NC | 9290 039 21506 |
| EAN1 (GTIN) | 8721103043351 |
| EAN3 (box) | 8721103043368 |
| Pieces per box | 40 |
| Weight | 107 gram |

| Specification item | Value |
|---|---|
| Product name | Xitanium 12W 0.15-0.3A 40V HE 3CW 230V |
| EOC | 872110304331300 |
| Logistic code 12NC | 9290 039 21406 |
| EAN1 (GTIN) | 8721103043313 |
| EAN3 (box) | 8721103043320 |
| Pieces per box | 40 |

| Specification item | Value |
|---|---|
| Product name | Xitanium 12W 0.15-0.3A 40V HE 3CG 230V |
| EOC | 872110304335100 |
| Logistic code 12NC | 9290 039 21606 |
| EAN1 (GTIN) | 8721103043351 |
| EAN3 (box) | 8721103043368 |
| Pieces per box | 40 |

## 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 | 0.058 | A | @ full output power @ rated input voltage |
| Rated input power | 13.4 | W | @ rated output power @ rated input voltage |
| Power factor performance range | 0.94 C | | @ rated output power @ rated input voltage@ rated output power @ rated input voltage |
| Total harmonic distortion | 13 | % | @ rated output power @ rated input voltage |
| Efficiency | 90.0 | % | @ rated output power @ rated input voltage @max. Uout |
| Input voltage AC | 198...264 | $V_{ac}$ | Operational range |
| Input frequency AC | 45...66 | Hz | Operational range |
| Isolation input to output | SELV | | |

## Electrical output data

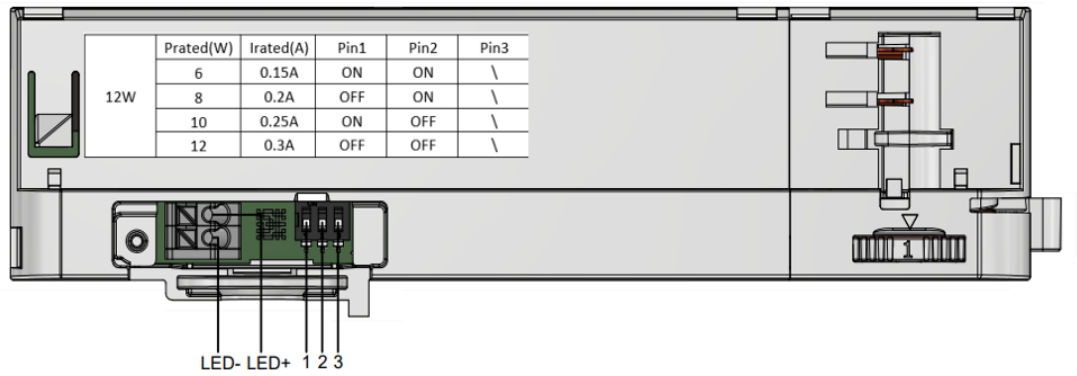
| Specification item | Value | Unit | Condition |
|---|---|---|---|
| Regulation method | Constant Current | | |
| Output voltage | 30...40 | $V_{dc}$ | |
| Output voltage max. | 60 | V | Maximum output voltage (rms) |
| Output current | 150 ... 300 | mA | Select output current via the dipswitches with steps of 37.5 mA |
| Output current tolerance ± | 7.5 | % | @full load |
| Output current ripple LF | ≤ 3 | % | Ripple = peak / average, < 3kHz |
| Output current ripple HF | ≤ 15 | % | |
| Output $P_{st}^{LM}$ | ≤ 1.0 | | In entire operating window |
| Output SVM | ≤ 0.6 | | In entire operating window |
| Output power | 4.5...12.0 | W | |
| Rated output power | 12.0 | W | |

## Control interfaces

| Specification item | Value | Unit | Condition |
|---|---|---|---|
| Control method | Fixed | | Set by dipswitch |

## Wiring and Connections

| Specification item | Value | Unit | Type |
|---|---|---|---|
| Input wire cross-section | 0.5 / 20 | $mm^2$ / AWG | solid, tinned, stranded |
| Output wire cross-section | 0.2...0.5 / 24...20 | $mm^2$ / AWG | solid wire |
| Output wire strip length | 8.5...9.5 | mm | |
| Maximum cable length | 0.3 | m | Total length of wiring including LED module, one way |

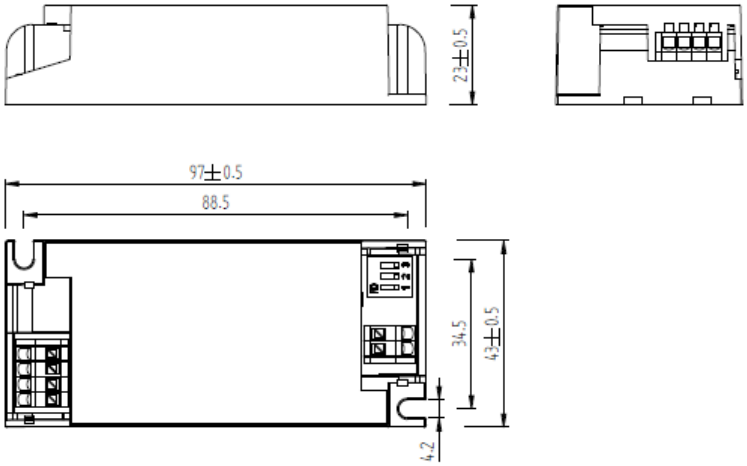



## Isolation

| Insulation per IEC61347-1 | Input | Output |
|---|---|---|
| Input | - | SELV |
| Output | SELV | - |

## Dimensions and weight

| Specification item | Value | Unit | Tolerance (mm) |
|---|---|---|---|
| Length (A1) | 162 | mm | ± 1.5 |
| Width (B1) | 31 | mm | ± 1 |
| Width (B2) | 33 | mm | ± 1 |
| Width (B3) | 39.6 | mm | ± 0.5 |
| Height (C1) | 44.4 | mm | ± 1 |
| Height (C2) | 13.9 | mm | ± 0.3 |
| Weight | 107 | gram | |
| Housing color | White, Black, Gray | | |

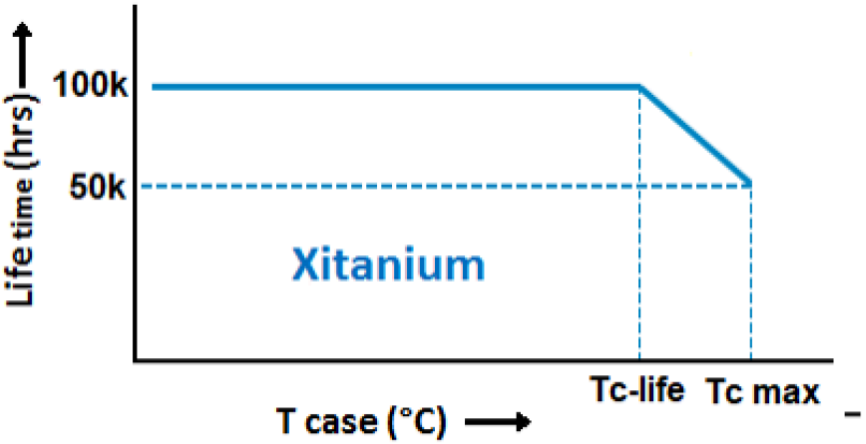



## Operational temperatures and humidity

| 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 Tcase-point |
| Tcase-life | 80 | °C | Measured at $T_{case}$-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 | 100,000 | hours | Measured temperature at Tcase-point is Tcmax - 10 degrees. Maximum failures = 10% |
| Driver lifetime Tcmax | 50,000 | hours | Measured temperature at Tcase-point is Tc-max. Maximum failures = 10% |




Maximum failures = 10%

Maximum failures = 10%

| Temperature [°C] | Lifetime | Unit | Condition |
|---|---|---|---|
| 80 | 100000 | hr | Temperature measured @Tc point |
| 75 | >100000 | hr | |
| 70 | >100000 | hr | |

## Storage temperature and humidity

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

## Programmable features

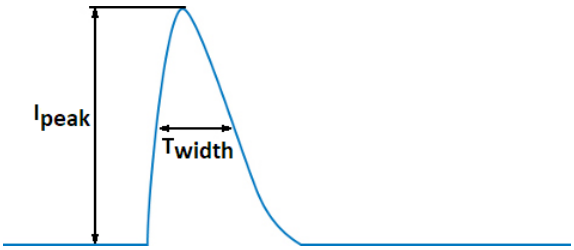
| Specification item | Available | Default setting | Condition |
|---|---|---|---|
| Set Adjustable Output Current (AOC) | DipSwitch | 350 mA | Set the output current via the dipswitches, see wiring diagram for an overview |

## 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 | per IEC60598 |

## Inrush current

| Specification item | Value | Unit | Condition |
|---|---|---|---|
| Inrush current | 15.9 | A | Input voltage 230V |
| Inrush peak width | 92 | µs | Input voltage 230V, measured at 50% height |
| Drivers / MCB 16A type B @230V AC | ≤ 47 | 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 Protective Conductor Current (ins. Class I) | 0.7 | mA rms | Acc. IEC60598-1. LED module contribution not included |

## Surge immunity

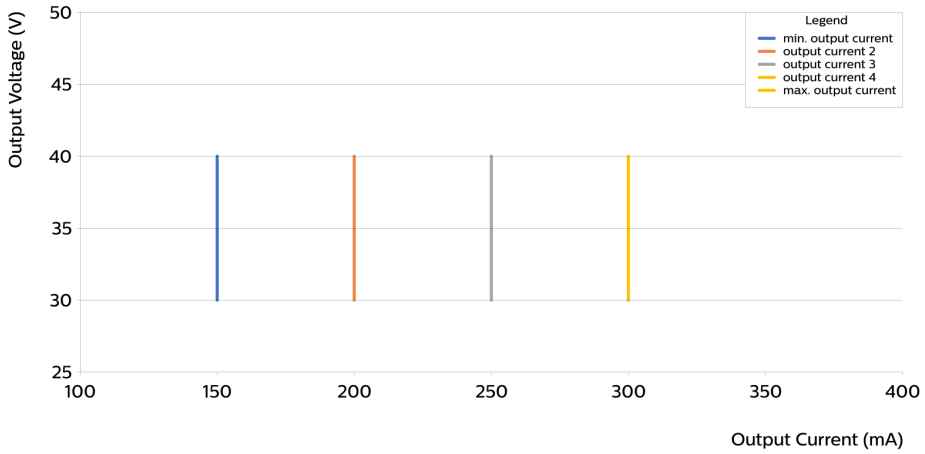
| Specification item | Value | Unit | Condition |
|---|---|---|---|
| Mains surge immunity (diff. mode) | 1 | kV | Acc. IEC61000-4-5. 2 Ohm, 1.2/50us, 8/20us |
| Mains surge immunity (comm. mode) | 2 | kV | Acc. IEC61000-4-5. 12 Ohm, 1.2/50us, 8/20us |

## Application Info (Approbation)

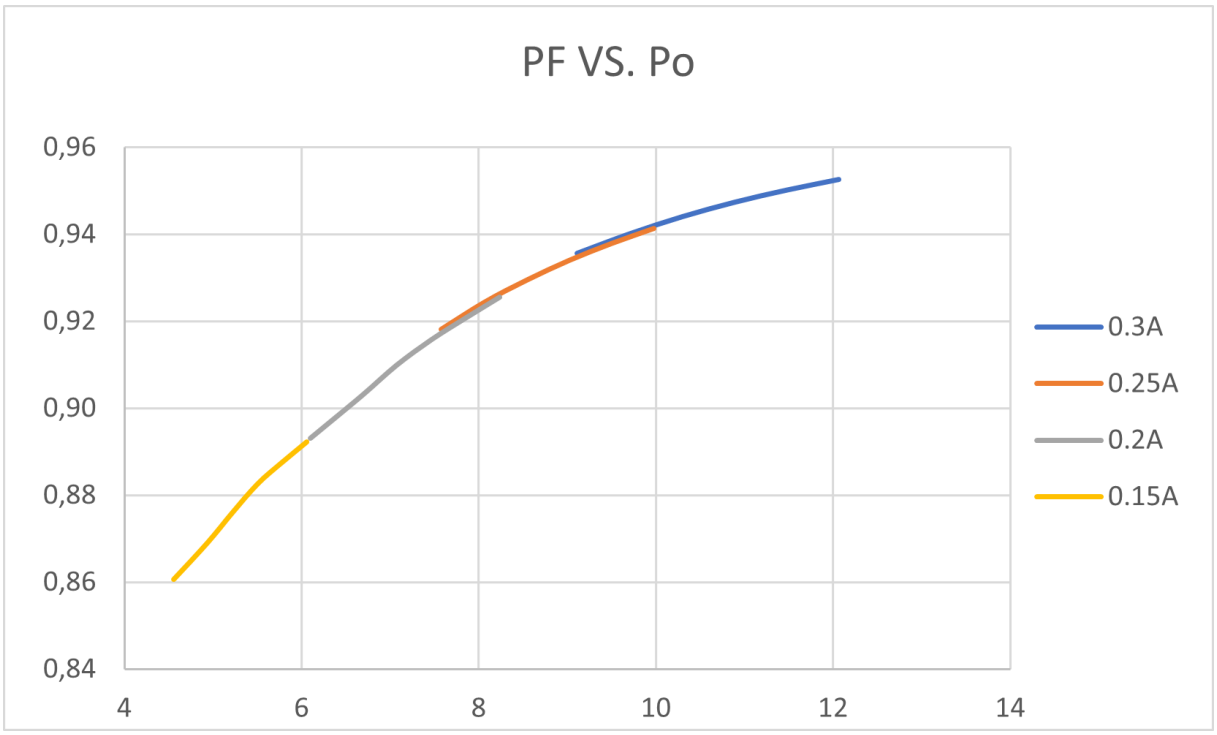
| Specification item | Value |
|---|---|
| Approval marks and Certifications | CB / CCC / CE / CQC / EAC / ENEC / RCM / SELV / UKCA |
| Ingress Protection classification (IP) | 20 |
| Application | Indoor Point |
| Mounting Type | Track mounting |

## Graphs

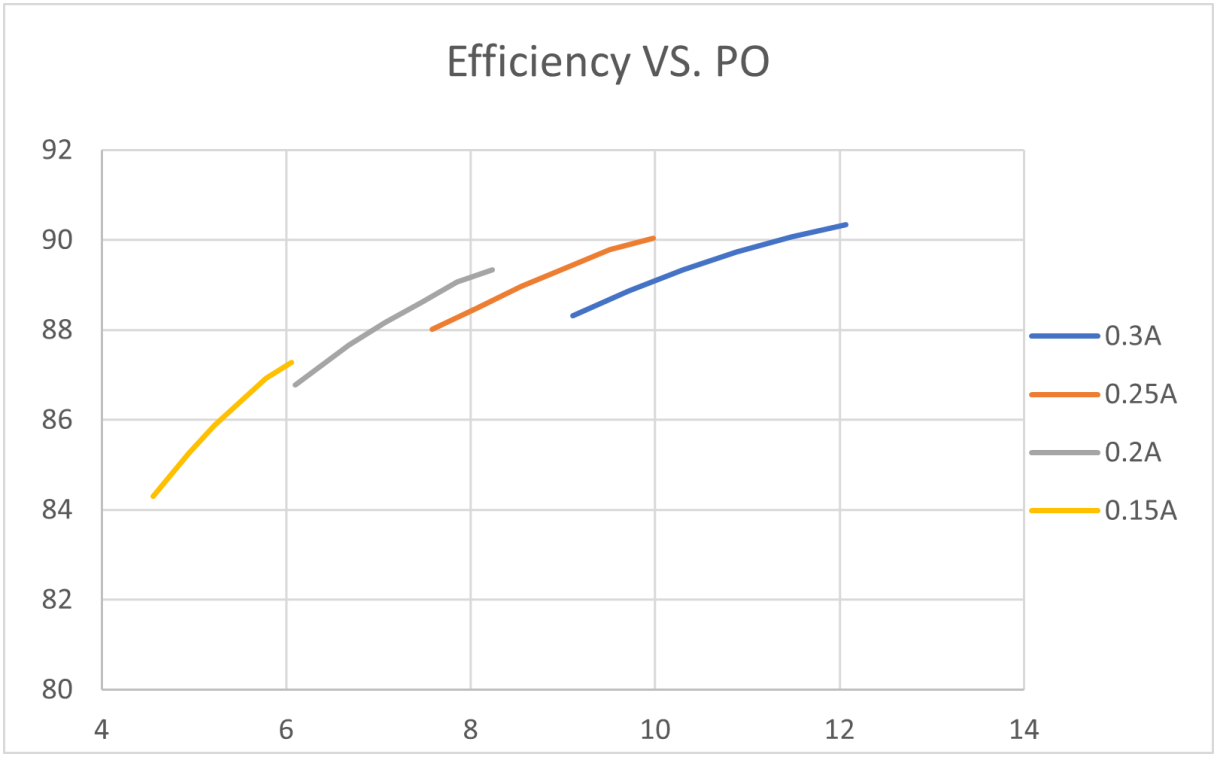
## Operating window



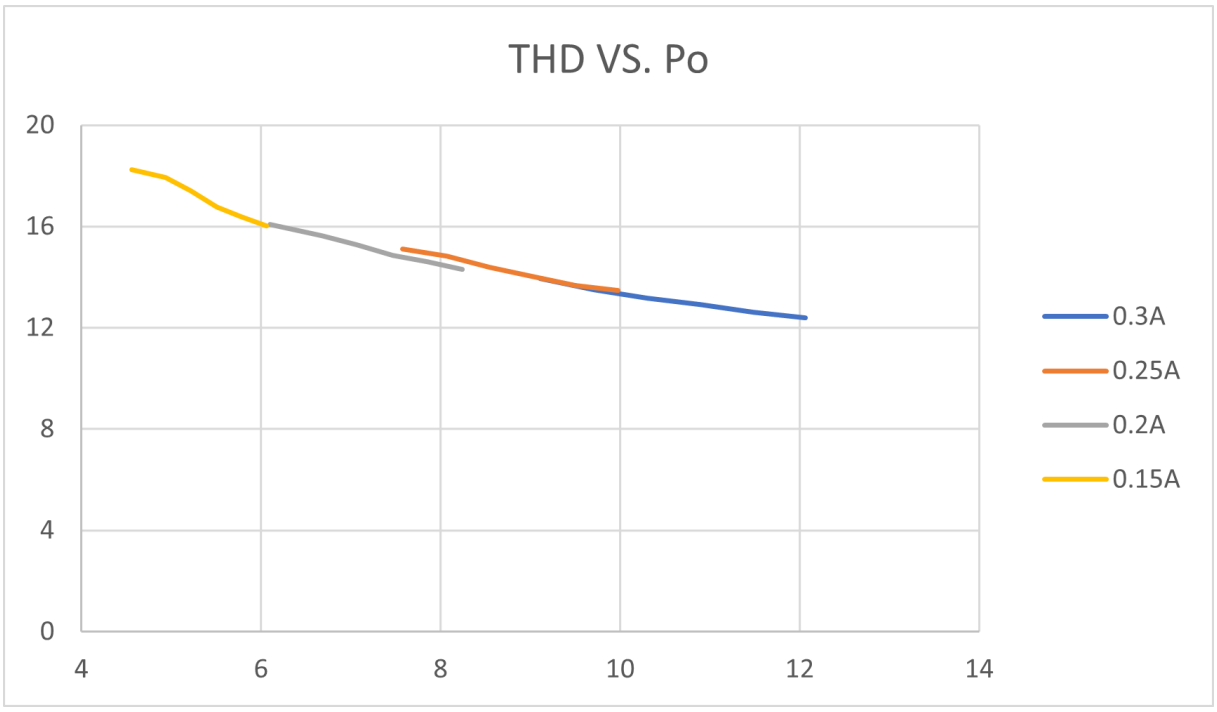

## Power factor versus output power



## Efficiency versus output power




## THD versus output power




© 2026 Signify Holding. All rights reserved. The information provided herein is subject to change, without notice. Signify does not give any representation or warranty as to the accuracy or completeness of the information included herein and shall not be liable for any action in reliance thereon. The information presented in this document is not intended as any commercial offer and does not form part of any quotation or contract, unless otherwise agreed by Signify. All trademarks are owned by Signify Holding or their respective owners.