

# PHILIPS

## Xitanium 42 W/a

0.15-1.05A 42V 3Cx IA



### Specification Sheet

# Xitanium 42 W/a 0.15-1.05A 42V 3Cx IA Track adapter 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 as well as track systems from Global Trac Pro and Stucchi OneTrack.

# Xtanium 42 W/a

## 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
- Available in white, black and grey housing color
- Energy metering
- Diagnostics

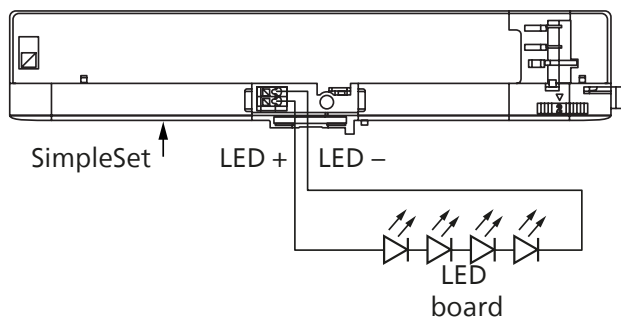
## Benefits

- Driver design based on Philips experience and knowledge of conventional fluorescent and HID technologies.
- Various power ratings matching common lumen packages/applications.
- Track adaptor housing design for compact track luminaire designs

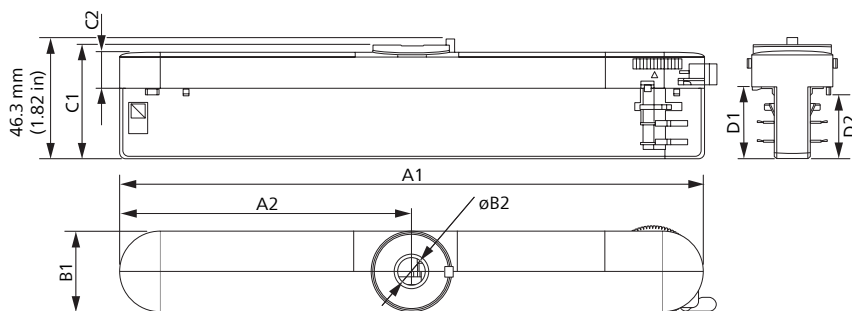
## Applications

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

## Wiring diagram



## Dimensional drawing



# Specifications

## Physical information

|  |   |
|--|---|
| Length (A1)  | 224 mm (8.81 in)                              |
| Mounting hole distance (A2)                                      | 112 mm (4.41 in)                              |
| Width (B1)   | 31.0 mm (1.22 in)                             |
| Height (C1)  | 43.8 mm (1.72 in)                             |
| Height (C2)  | 13.7 mm (0.54 in)                             |
| Track depth (D1)   | 27.3 mm (1.07 in)                             |
| Track depth (D2)   | 24.4 mm (0.96 in)                             |
| Output wire cross-section (solid or stranded wire cross-section) | 0.5 to 1.5 mm <sup>2</sup> (AWG-20 to AWG-16) |
| Output wire strip length   | 7.5 to 8.5 mm (0.30 to 0.33 in)               |
| Maximum cable length   | 0.3 m (11.8 Ft)                               |
| Weight   | 0.160 kg (5.64 oz)                            |

## Environmental data

|                          |   |
|--------------------------|---|
| Ambient temperature      | -20 to +35 °C (-4 to +95 °F), higher ambient temperature allowed as long as $T_{\text{case-max}}$ is not exceeded |
| $T_{\text{case-max}}$    | 80 °C (176 °F), lifetime 50 000 hours   |
| $T_{\text{case-life}}$   | 80 °C (176 °F), measured at $T_c$ point   |
| $T_{\text{housing-max}}$ | 130 °C (266 °F), In case of a failure, inherent by design   |
| Operating humidity       | 10 to 90%, non condensing   |
| Storage temperature      | -25 to +85 °C (-13 to +185 °F)  |
| Storage humidity         | 5 to 95%, non condensing  |

## Electrical input data

|                           |  |
|---------------------------|--|
| Rated input voltage range | 220 to 240 V <sub>ac</sub> performance range                               |
| Rated input voltage       | 230 V <sub>ac</sub>  |
| Rated input frequency     | 50 to 60 Hz performance range  |
| Rated input current       | 0.22 A; at maximum output power and rated input voltage                    |
| Maximum input current     | 0.25 A; at rated output power and minimum performance input voltage        |
| Rated input power         | 50 W; at rated output power and rated input voltage                        |
| Power factor              | 0.90; at maximum output power and rated input voltage                      |
| Total harmonic distortion | 20%; at rated output power and rated input voltage                         |
| Efficiency                | 87%; at rated output power, rated input voltage and maximum output voltage |
| Input voltage AC range    | 198 to 264 V <sub>ac</sub> ; safety operational range                      |
| Input frequency AC range  | 45 to 66 Hz; safety operational range                                      |
| Standby power             | 0.42 W   |
| Isolation input to output | SELV   |

## Electrical output data

|                                     |  |
|-------------------------------------|--|
| Regulation method                   | Constant current                       |
| Output voltage                      | 10 to 48 V <sub>dc</sub>               |
| Maximum output voltage              | 60 V <sub>dc</sub> (rms)               |
| Output current                      | 0.15 to 1.05 A                         |
| Minimum programmable output current | 150 mA                                 |
| Output current tolerance            | ±5%                                    |
| Output current ripple LF            | ≤ 4%; ripple = peak / average, < 3 kHz |
| Output P <sub>stLM</sub>            | ≤ 1                                    |
| Output SVM                          | ≤ 0.4                                  |
| Output power                        | 10 to 42 W                             |
| Isolation output to input           | SELV                                   |

## Inrush current data

|                                   |  |
|-----------------------------------|--|
| I <sub>peak</sub> inrush current  | 8.07 A, input voltage 230 V                                  |
| T <sub>width</sub> inrush current | 31 μs, input voltage 230 V measured at 50% I <sub>peak</sub> |

## Lifetime

|                 |   |
|-----------------|---|
| Driver lifetime | 50 000 hours, measured temperature at T <sub>case</sub> -point is T <sub>case-life</sub> . Maximum failures = 10% |
|-----------------|---|

## Surge immunity

|                                   |   |
|-----------------------------------|---|
| Mains surge immunity (diff. mode) | 1 kV, L/N Acc. IEC61000-4-5<br>2 Ohm, 1.2/50 μs, 8/20 μs  |
| Mains surge immunity (comm. mode) | 2 kV, L/N Acc. IEC61000-4-5<br>12 Ohm, 1.2/50 μs, 8/20 μs |

## Electrical data controls input

|                |  |
|----------------|--|
| Control method | Wireless, Zigbee, dimming is possible through the RF interface |
|----------------|--|

## Compatibility

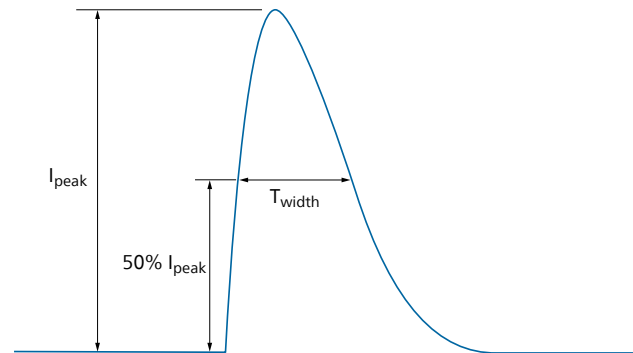
|                          |   |
|--------------------------|---|
| Compatible track systems | Global Trac Pro,<br>Stucchi OneTrack 3 circuits |
|--------------------------|---|

## Compliance

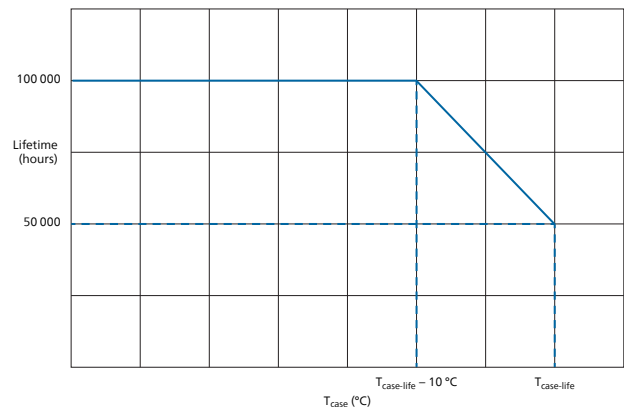
|              |                           |
|--------------|---------------------------|
| IP rating    | IP20                      |
| Approbations | CE, UKCA, RoHS, ENEC, CCC |



## Inrush current peak definition



## Lifetime



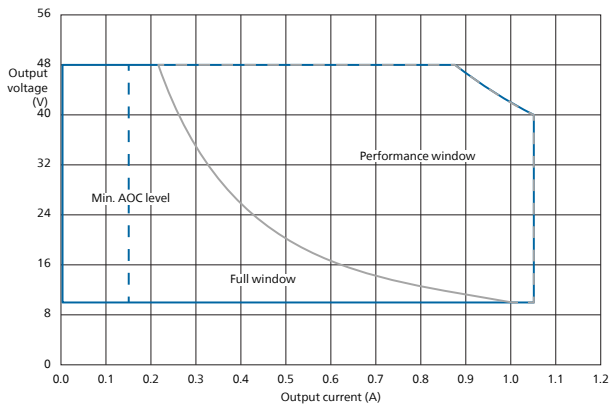
## Programmable features

| Item  | Available | Default setting | Condition |
|---|-----------|-----------------|-----------|
| Set Adjustable Output Current (AOC)                   | ✓         | 1 050 mA        |           |
| Adjustable Light Output (ALO)                         | ✓         | OFF             |           |
| Minimum Adjustable Light Output (ALO <sub>min</sub> ) | ✓         |                 |           |
| Constant Light Output (CLO)                           | ✓         | OFF             |           |
| Touch and Dim (TD)                                    | —         |                 |           |
| Corridor mode   | —         |                 |           |
| OEM Write Protection (OWP)                            | ✓         | OFF             |           |
| Luminaire info (DALI part 251)                        | ✓         | —               |           |
| T <sub>x</sub> Power                                  | ✓         | 8 dBm           |           |

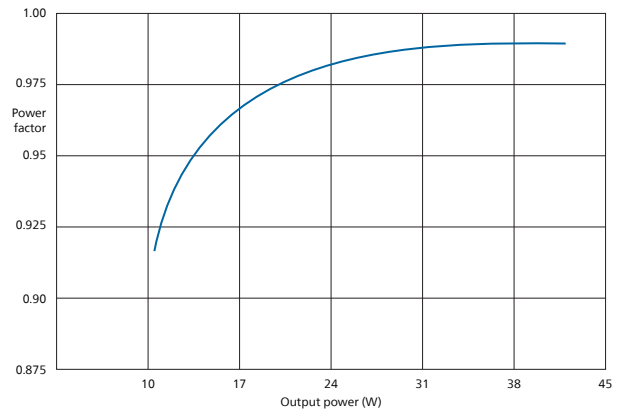
## Features

|                          |   |  |                      |
|--------------------------|---|--|----------------------|
| Open load protection     | ✓ |  | Automatic recovering |
| Short circuit protection | ✓ |  | Automatic recovering |
| Over power protection    | ✓ |  | Automatic recovering |
| Hot wiring               | — |  |                      |
| Energy metering          | ✓ |  |                      |
| Diagnostics              | ✓ |  |                      |

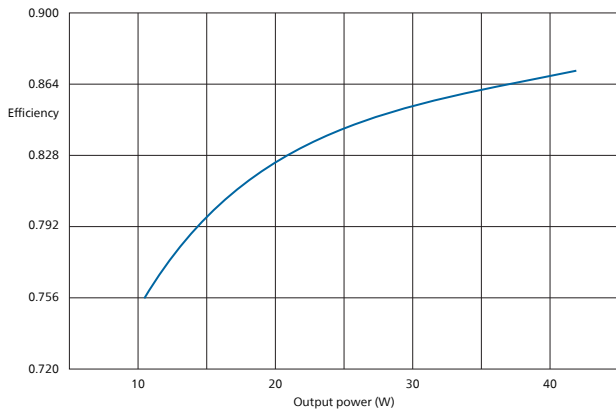
### Operating window



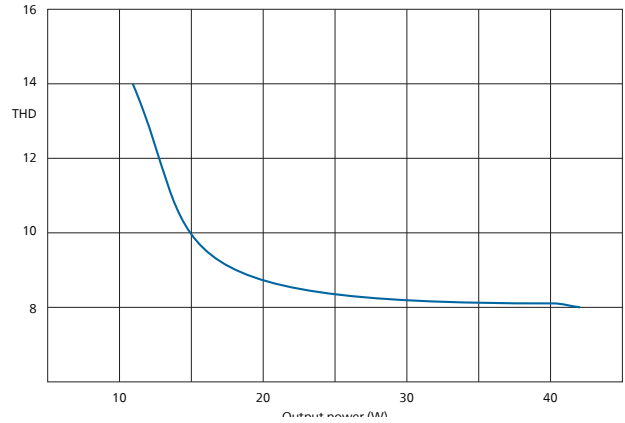
### Power factor versus output power



### Efficiency versus output power



### THD versus output power



## Ordering Data

| Type                                 | MOQ | Order code     | Color |
|--------------------------------------|-----|----------------|-------|
| Xitanium 42W/a 0.15-1.05A 42V 3CB IA | 40  | 9290 034 28606 | Black |
| Xitanium 42W/a 0.15-1.05A 42V 3CG IA | 40  | 9290 034 28706 | Grey  |
| Xitanium 42W/a 0.15-1.05A 42V 3CW IA | 40  | 9290 034 28506 | White |

© 2023 Signify Holding. All rights reserved. Specifications are subject to change without notice. No representation or warranty as to the accuracy or completeness of the information included herein is given and any liability for any action in reliance thereon is disclaimed. Philips and the Philips Shield Emblem are registered trademarks of Koninklijke Philips N.V. All other trademarks are owned by Signify Holding or their respective owners.



[www.philips.com/lighting](http://www.philips.com/lighting)