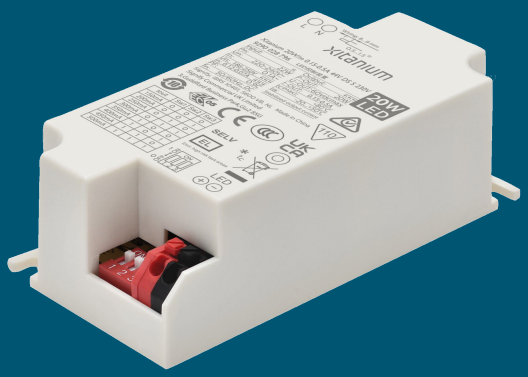
Xitanium

Datasheet

# LED drivers – mini (DipSwitch)

Xitanium 40W/m 0.7-1.05A 44V DS S 230V
9290 038 70806



**Enabling future-proof LED technology**
Xitanium LED drivers are designed to operate LED solutions for general lighting applications.

## 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

- Easy current selection via dipswitch
- SELV
- Additional input connectors for loopthrough wiring

## Application

- Retail
- Office

## Logistical data

| Specification item | Value |
|---|---|
| Product name | Xitanium 40W/m 0.7-1.05A 44V DS S 230V |
| EOC | 872016932223300 |
| Logistic code 12NC | 9290 038 70806 |
| EAN1 (GTIN) | 8720169322233 |
| EAN3 (box) | 8720169322240 |
| Pieces per box | 40 |
| Weight | 134 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 | 0.2 | A | @ rated output power @ rated input voltage |
| Rated input power | 45.4 | W | @ rated output power @ rated input voltage |
| Power factor | 0.90 | | @maximum output power @ rated input voltage |
| Total harmonic distortion | 20 | % | @ rated output power @ rated input voltage |
| Efficiency | ≥ 88.0 | % | @ maximum output power @ rated input voltage @ max. Uout |
| Rated input voltage DC | 186...250 | $V_{dc}$ | Performance range; EOFi = 95% |
| Rated input current DC | 0.18...0.25 | $A_{dc}$ | 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 | 5...44 | $V_{dc}$ | 1050mA: 5-38Vdc, 1000mA: 5-40Vdc, 950mA 5-42Vdc |
| Output voltage max. | 60 | V | Maximum output voltage (rms) |
| Output current | 700 ... 1050 | mA | Via dipswitches:  with steps of 43.75 mA |
| Output current tolerance ± | 5 | % | @full load |
| Output current ripple LF | ≤ 4 | % | Ripple = peak / average, < 3kHz |
| Output $P_{st}^{LM}$ | ≤ 0.3 | | In entire voltage range for each choice of output current |
| Output SVM | ≤ 0.3 | | In entire voltage range for each choice of output current |
| Output power | 3.5...40.0 | W | Performance range: `12...40W |
| Rated output power | 40.0 | W | |

## Control interfaces

| Specification item | Value | Unit | Condition |
|---|---|---|---|
| Control method | Fixed | | Output current can be set via dip switches |

## Wiring and Connections

| Specification item | Value | Unit | Type |
|---|---|---|---|
| Input wire cross-section | 0.5...1.5 | mm² / AWG | solid / stranded wire |
| Input wire strip length | 8...9 | mm | |
| Output wire cross-section | 0.5...1.5 | mm² / AWG | solid / stranded wire |
| Output wire strip length | 8...9 | mm | |
| Maximum cable length | 0.6 | m | CISPR15: between driver and LED module |



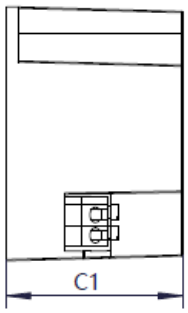

| Irated | Sw1 | Sw2 | Sw3 |
|---|---|---|---|
| 700mA | 0 | 0 | 0 |
| 750mA | 0 | 0 | 1 |
| 800mA | 0 | 1 | 0 |
| 850mA | 0 | 1 | 1 |
| 900mA | 1 | 0 | 0 |
| 950mA | 1 | 0 | 1 |
| 1000mA | 1 | 1 | 0 |
| 1050mA | 1 | 1 | 1 |

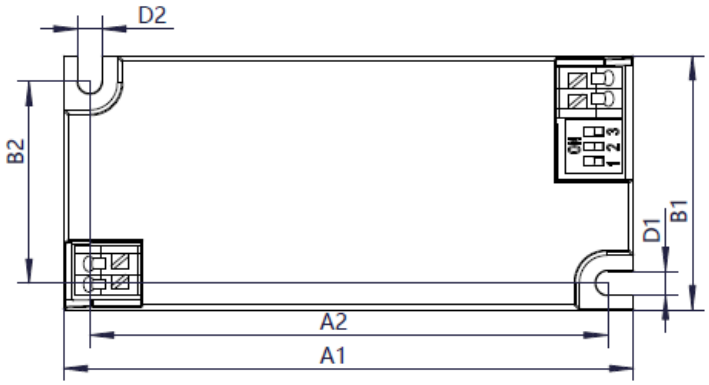
## Isolation

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

## Dimensions and weight

| Specification item | Value | Unit | Tolerance (mm) |
|---|---|---|---|
| Length (A1) | 97.3 | mm | |
| Mounting hole distance (A2) | 88.4 | mm | |
| Width (B1) | 43.3 | mm | |
| Width (B2) | 34.4 | mm | |
| Height (C1) | 30 | mm | |
| Mounting hole diameter (D1) | 4.2 | mm | |
| Mounting hole diameter (D2) | 4.2 | mm | |
| Weight | 134 | gram | |
| Housing color | White | | |



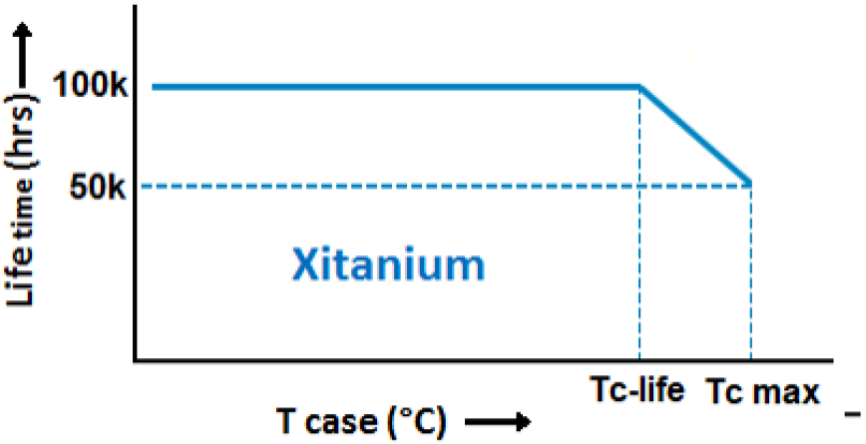




## Operational temperatures and humidity

| 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 | 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

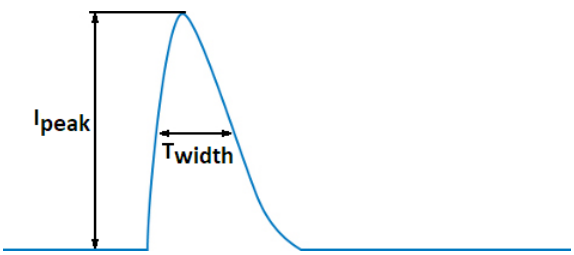
| Specification item | Available | Default setting | Condition |
|---|---|---|---|
| Set Adjustable Output Current (AOC) | DipSwitch | 700 mA | Set the output current via the dipswitch, see wiring diagram for an overview |

## 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 and II | per IEC60598 |

## Inrush current

| Specification item | Value | Unit | Condition |
|---|---|---|---|
| Inrush current | 5.8 | A | Input voltage 230V |
| Inrush peak width | 82 | µs | Input voltage 230V, measured at 50% height |
| Drivers / MCB 16A type B @230V AC | ≤ 48 | 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

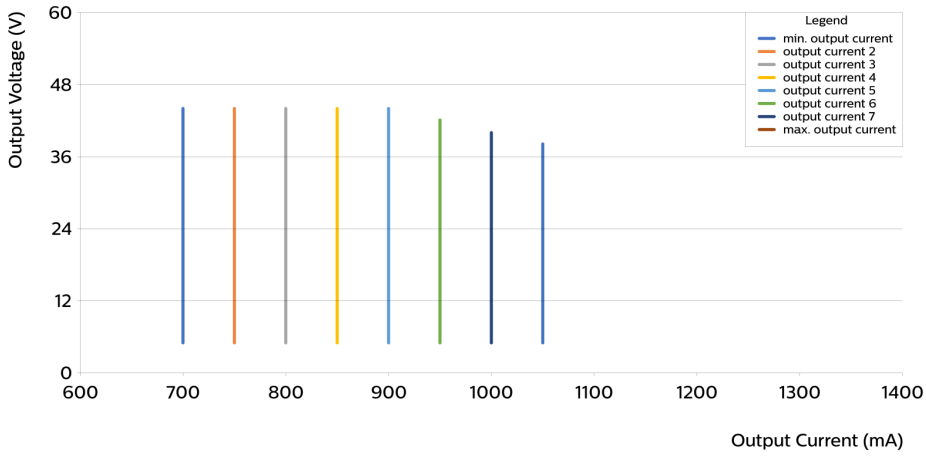
| Specification item | Value | Unit | Condition |
|---|---|---|---|
| Mains surge immunity (diff. mode) | 1 | kV | L- N Acc. IEC61000-4-5. 2 Ohm, 1.2/50us, 8/20us |
| Mains surge immunity (comm. mode) | 2 | kV | Acc. IEC61000-4-5. 12 Ohm, 1.2/50us, 8/20us |

## Application Info (Approbation)

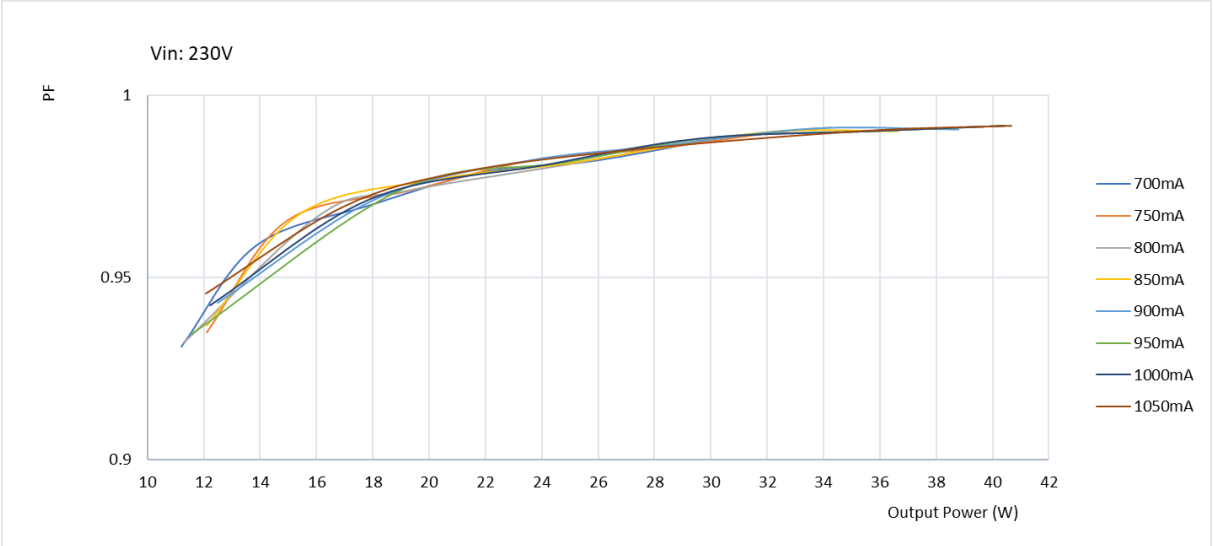
| Specification item | Value |
|---|---|
| Approval marks and Certifications | CB / CCC / CE / EAC / EL / ENEC / RCM / UA / UKCA |
| Ingress Protection classification (IP) | 20 |
| Noise and hum dB(A) | 20 |
| Application | Indoor Point |
| Mounting Type | Built-in |

## Graphs

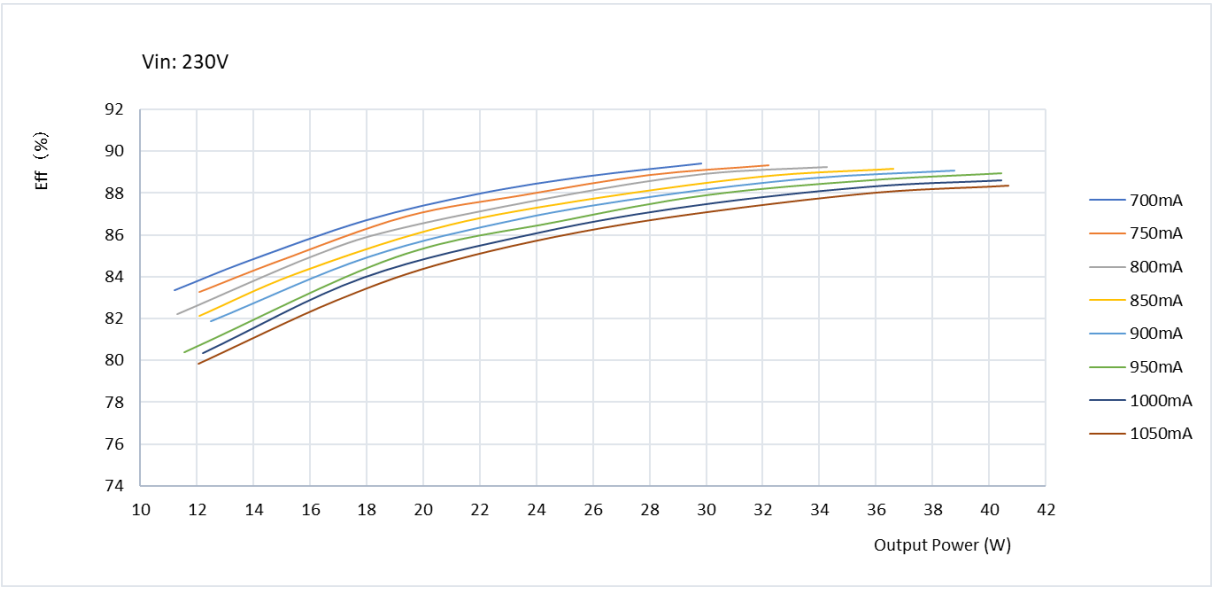
## Operating window



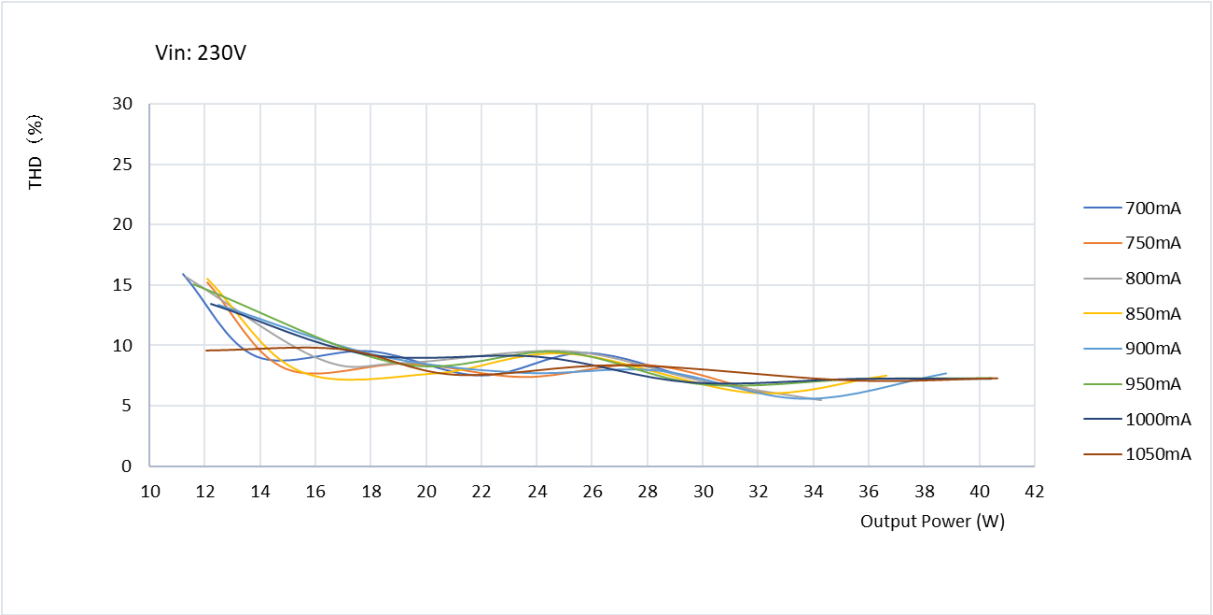

## Power factor versus output power



## 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.