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OT WI 15/220-240/1A0 NFC CA LP

OPTOTRONIC Wireless Intelligent – Casambi NFC LP | Compact constant current LED driver – Dimmable

Product family features

- Supply voltage: 220...240 V

- Line frequency: 0 Hz | 50 Hz | 60 Hz

Line voltage: 198...264 VLifetime: up to 100,000 hType of protection: IP20



Product family benefits

- Small housing for flexible luminaire designs
- Versatile CASAMBI window driver due to flexible output characteristic
- Easy and fast output current setting via NFC
- Very high efficiency
- High-quality dimming of 1...100 % by amplitude dimming



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Areas of application

- Suitable for downlights, spotlights and LED panels
- Suitable for use in luminaires with flexible current setting
- Installation in emergency lighting systems according to IEC 61347-2-13, appendix J
- Suitable for indoor SELV installations
- Suitable for luminaires of protection classes I and II

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Technical data

Electrical data

| Max. ECG no. on circuit breaker 10 A (B) | 82 |
|--|--------------------------|
| Max. ECG no. on circuit breaker 16 A (B) | 130 |
| Maximum output power | 18 W ¹⁾ |
| Nominal output current | 1501050 mA ²⁾ |
| Nominal output power | 18 W |
| Nominal output voltage | 1054 V ³⁾ |
| Nominal input voltage | 220240 V |
| Input voltage AC | 198264 V ⁴⁾ |
| Input voltage DC | 176276 V |
| Efficiency in full-load | 87.3 % ⁵⁾ |
| Galvanic isolation primary/secondary | SELV |
| Inrush current | 20 A ⁶⁾ |
| Networked standby power | 0.15 W ⁵⁾ |
| Power factor λ | 0.33C0.98 |
| Mains frequency | 0,50,60 Hz |
| Surge capability (L-N) | 1 kV |
| Surge capability (L/N-Ground) | 2 kV |
| U-OUT (working voltage) | 60 V |
| Current set | NFC |
| Maximum TX power | 8 dBm ⁷⁾ |
| Output current tolerance | ±3 % |
| Output ripple current (100 Hz) | < 3 % ⁸⁾ |
| Radio frequency | 2.4 GHz |
| Total harmonic distortion | < 10 % ⁹⁾ |
| Wireless protocol | Casambi Evolution |
| Wireless range | 10 m line of sight |
| Default output current | 350 mA |

¹⁾ Partial load 3...18 W

^{2) ±3%}

³⁾ Maximum 60 V

⁴⁾ Permitted voltage range

⁵⁾ at 230 V, 50 Hz

⁶⁾ t = 25 μ s (measured at 50 % I peak) 7) 6.3 mW

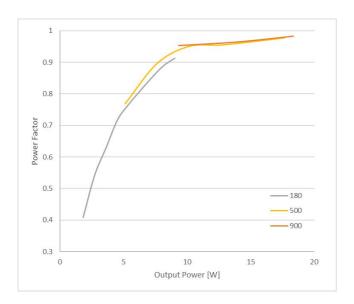
⁸⁾ Ripple average at 100 Hz

⁹⁾ At full load, 220...240 V, 50 Hz / see graphs

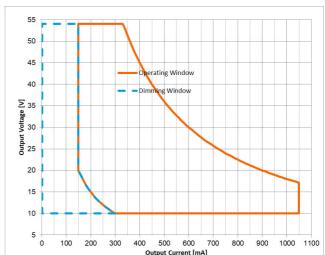
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Typical Power Factor v Load

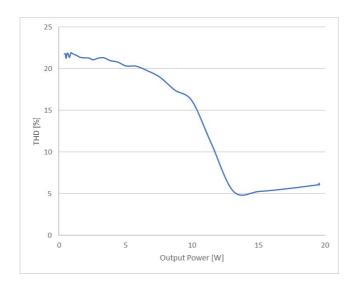


Operating Window



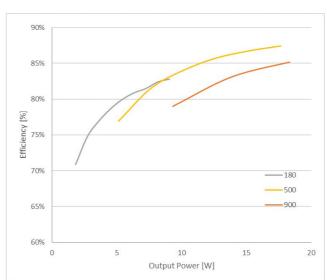
OTI DALI 15 NFC LP Typical Power Factor vs. Load

Typical THD v Load



OTI DALI 15 NFC LP Operating window

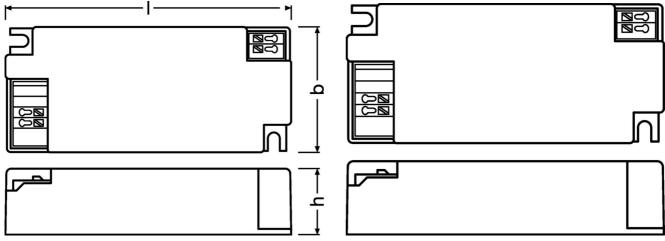
Typical Efficiency v Load 230 V 50 Hz



OTI DALI 15 NFC LP Typical THD Vs Load

OTI DALI 15 NFC LP Typical Efficiency vs. Load (230 V / 50 Hz)

Dimensions & weight



| Product weight | 95.00 g |
|--------------------------------------|---------------------------|
| Length | 97.0 mm |
| Height | 22.0 mm |
| Width | 42.5 mm |
| Cable cross-section, input side | 0.51.5 mm ² 1) |
| Cable cross-section, output side | 0.51.5 mm ² 1) |
| Mounting hole spacing, length | 88.0 mm |
| Mounting hole spacing, width | 34.0 mm |
| Wire preparation length, input side | 78 mm |
| Wire preparation length, output side | 78 mm |

¹⁾ Solid or flexible leads

Colors & materials

| Casing material | Plastic |
|-----------------|---------|
| Product color | White |

Temperatures & operating conditions

| Ambient temperature range | -20+50 °C |
|--|---------------------|
| Max.housing temperature in case of fault | 110 °C |
| Maximum temperature at tc test point | 80 °C ¹⁾ |
| Permitted rel. humidity during operation | 585 % ²⁾ |
| Temperature range at storage | -40+85 °C |

¹⁾ Maximum at the Tc-point

²⁾ Maximum 56 days/year at 85 %

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Lifespan

| ECG lifetime | 50000 h / 100000 h ¹⁾ |
|--------------|----------------------------------|

1) $T_c = 80^{\circ}$ C, 0.2% / 1,000 h failure rate / $T_c = 70^{\circ}$ C, 0.1% / 1,000 h failure rate

Additional product data

| Encapsulated | No |
|--------------|----|

Capabilities

| | 4) |
|--|----------------------|
| Max. cable length to lamp/LED module | 2.0 m ¹⁾ |
| Number of channels | 1 |
| Dimmable | Yes |
| Dimming interface | Bluetooth CASAMBI |
| Dimming method | Amplitude Modulation |
| Dimming range | 1100 % |
| Overload protection | Automatic reversible |
| Overheating protection | Automatic reversible |
| Short-circuit protection | Automatic reversible |
| Suitable for emergency lighting | Yes |
| Suitable for fixtures with prot. class | 1/11 |
| Type of connection, input side | Push terminal |
| Type of connection, output side | Push terminal |
| Constant lumen function | Programmable |
| No-load proof | Yes |
| Programming interface | NFC |

¹⁾ Output wires must be routed as close as possible to each other

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| Box programming Yes |
|---------------------|
|---------------------|

Programmable features

| Dim to Dark | Yes |
|-----------------------|-----|
| Configuration Lock | Yes |
| DALI-2 Luminaire Data | No |
| Driver Guard | Yes |
| Emergency Mode | Yes |
| Soft Switch Off | Yes |
| Tuning Factor | Yes |

Certificates & standards

| Type of protection | IP20 |
|---------------------------|--|
| Standards | Acc. to EN 61347-1 / Acc. to EN 61347-2-13 / Acc. to EN 55015 / Acc. to EN 61547 / Acc. to EN 61000-3-2 / Acc. to EN 62384 / Acc. to EN 62479 / Acc. to ETSI EN 300 328 / Acc. to ETSI EN 301 489-17 / Acc. to ETSI EN 301 489 - 1 |
| Approval marks – approval | CE / UKCA / ENEC / EAC / EL / BIS |

Logistical data

| Commodity code | 85044095900 |
|----------------|-------------|



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Additional product information

- Download Casambi app from App store or Google play. For the correct functioning of the Casambi app refer to the Casambi website: http://www.casambi.com.
- The Casambi App is provided to you by Casambi. OSRAM shall have no liability for the Casambi app and does not make any representations, express or implied, about the availability and/or performance of the Casambi app.
- The Casambi cloud services are provided to you by Casambi. OSRAM shall have no liability for the Casambi cloud services and does not make any representations, express or implied, about the availability and/or performance of the Casambi cloud services.
- OSRAM shall have no liability for and does not make any representations, express or implied, about the connectivity of Casambi ready products of OSRAM with any other Casambi ready products.
- There are two places in the app where you can unpair a Casambi enabled device from a network.
- 1. Go to the 'Luminaires' tab and tap 'edit'. Unpair a luminaire by tapping the ("X") that will appear in the corner of the relevant luminaire icon. You can also double-tap a luminaire icon to open the "luminaire properties" screen, and then scroll down and tap 'Unpair device'.
- 2. Go to the "Nearby devices" screen found under the 'More' tab. Tap on the device you wish to unpair and select 'Unpair device'. This will unpair the luminaire if you have modification (administrator) rights to the network. If you don't have the modification rights to the network that the device is paired to then you need to have access to the devices power switch to be able to unpair. Tap on the device you wish to unpair and select 'Unpair device' and the app will open the 'Unpair' screen. Tap on the 'Start' button and an orange "Time bar" will appear and start to move across the screen. During the time it takes the bar to move across the screen, flick the power switch off and back on again. This should unpair the device. If unpairing succeeds then there is a message that luminaire has been unpaired. If it does not succeed then try again but switch the power off and on again more slowly (This may be needed for devices that use an additional power supply; such as a CBU-PWM4). If unpairing continues to be unsuccessful then it is probably the case that the power switch is not correct for the device you are trying to unpair.

Ecodesign regulation information:

Intended for use with LED modules.

The forward voltage of the LED light source shall be within the defined operating window of the control gear in all operating conditions including dimming if applicable.

Separate control gear and light sources must be disposed of at certified disposal companies in accordance with Directive 2012/19/EU (WEEE) in the EU and with Waste Electrical and Electronic Equipment (WEEE) Regulations 2013 in the UK. For this purpose, collection points for recycling centres and take-back systems (CRSO) are available from retailers or private disposal companies, which accept separate control gear and light sources free of charge. In this way, raw materials are conserved and materials are recycled.

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Download Data

| File | | |
|------------------------|------------|-------------------------------------|
| Certificates | PDF | ►OT ENEC 40038447 270224 |
| CAD data 3-dim | Compressed | ►OT WI NFC CA BL LP CAD3PDF 130722 |
| CAD data 2-dim | Compressed | ►OT WI NFC CA BL LP CAD2PDF 130722 |
| CAD data | Compressed | ►OT WI NFC CA BL LP IGS 130722 |
| CAD data | Compressed | ►OT WI NFC CA BL LP STEP 130722 |
| Mandatory Publications | PDF | ►OT WI NFC LP CE 4388804 080722 |
| Mandatory Publications | PDF | ►OT WI NFC LP UK DoC 4388806 080722 |
| User instruction | PDF | ►UI OT WI NFC CA LP |

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Logistical Data

| Product code | Product description | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Volume | Gross weight |
|---------------|-----------------------------------|---------------------------------|--------------------------------------|----------|--------------|
| 4062172227971 | OT WI 15/220-240/1A0 NFC CA LP | Shipping carton box 20 Pieces | 208 x 122 x 107 mm | 2.72 dm³ | 90.00 g |

The mentioned product code describes the smallest quantity unit which can be ordered. One shipping unit can contain one or more single products. When placing an order, for the quantity please enter single or multiples of a shipping unit

Accessories Optional

| Product description | Accessory name | Accessory code |
|--------------------------------|----------------|----------------|
| OT WI 15/220-240/1A0 NFC CA LP | PRH101 -USB | ▶6977078996938 |
| OT WI 15/220-240/1A0 NFC CA LP | CPR30 -USB | ▶6977078996945 |

Disclaimer

Subject to change without notice. Errors and omission excepted. Always make sure to use the most recent release.