

## FICHE PRODUIT

# OT 50/120...277/800 2DIMLT2 P

OT 2DIM IP64 Outdoor | 0...10 V, AstroDIM – Convertisseurs LED à courant constant



### Zones d'application

- Street and urban lighting
- Industry
- Suitable for luminaires of protection classes I and II

### Avantages du produit

- 2DIM functionality in one device (AstroDIM, 0...10 V)
- High surge protection: up to 6 kV (in protection class I or II)
- Fast programming without mains voltage
- High efficiency
- Great flexibility due to wide operating temperature range of -40...55 °C
- Protection through double isolation between mains input and LED output
- IP rating: IP64

### Caractéristiques du produit

- Available with different wattage: 50 W, 100 W, 110 W
- Input voltage: 120...277 V
- Available with output current range: up to 1,400 mA
- Flexible current setting with one additional wire (LEDset2)
- AstroDIM for autonomous dimming with five independent levels (astro mode)
- Isolated 0...10 V interface for unidirectional telemanagement systems
- Constant Lumen Output (CLO)

- Overtemperature protection with external NTC or LEDset2 interface

## DONNÉES TECHNIQUES

## DONNÉES ÉLECTRIQUES

|  |                           |
|--|---------------------------|
| Puissance nominale                       | 50,00 W                   |
| Puissance de sortie                      | 50 W <sup>1)</sup>        |
| Tension nominale                         | 120...277 V               |
| Tension de sortie                        | 30...115 V                |
| Tension à l'entrée                       | 108...305 V <sup>2)</sup> |
| U-OUT                                    | 120 V                     |
| Intensité nominale                       | 0 A <sup>3)</sup>         |
| Intensité de sortie                      | 350...800 mA              |
| Courant d'appel                          | 30 A <sup>4)</sup>        |
| Tolérance sur le courant de sortie       | ±5 % <sup>5)</sup>        |
| Courant d'ondulation de sortie (100 Hz)  | 30 %                      |
| Fréquence du réseau                      | 50/60 Hz                  |
| Distorsion harmonique totale             | 15 % <sup>6)</sup>        |
| Facteur de puissance $\lambda$           | 0,95 <sup>7)</sup>        |
| Efficacité du BE                         | 86 % <sup>8)</sup>        |
| Puissance dissipée                       | 10 W <sup>9)</sup>        |
| Nbre max. de BE sur disjoncteur 10 A (B) | 11 <sup>10)</sup>         |
| Nbre max. de BE sur disjoncteur 16 A (B) | 17 <sup>10)</sup>         |
| Nbre max. de BE sur disjoncteur 25 A (B) | 28 <sup>10)</sup>         |
| Tension max. entre Phase/Neutre et Terre | 6 kV <sup>11)</sup>       |
| Tension maximum entre Phase/Neutre       | 6 kV <sup>12)</sup>       |
| Isolation galvanisée                     | SELV                      |

1) Charge partielle 11...50 W / Non gradé

2) Plage de tension autorisée

3) 0,50 A pour 120 V<sub>CA</sub> / A 230 V

4)  $t_{width} = 250 \mu s$  (mesuré à 50 %  $I_{peak}$ )

5) Dans la plage de courant de sortie nominal

6) Puissance de sortie maximale de 230 V V<sub>AC</sub>

7) Charge minimale/pleine à 230 V/demi-charge à 230 V

8) A pleine charge, courant de défaut et 230 V

9) Maximum

10) Type B

11) ÉQUI @ 12 Ohm selon. selon EN 61547

12) @ 2 ohms, selon. à EN61547

## Données photométriques

|  |      |
|--|------|
| Indice du papillotement (PstLM)        | ≤1   |
| Indice de l'effet stroboscopique (SVM) | ≤0.4 |

### DIMENSIONS ET POIDS

|  |           |
|--|-----------|
| Longueur                                 | 168,00 mm |
| Entraxe de fixation, longueur            | 152,0 mm  |
| Largeur                                  | 50,00 mm  |
| Largeur (y compris les luminaires ronds) | 50.00 mm  |
| Hauteur                                  | 30,00 mm  |
| Hauteur (luminaires cycliques inclus)    | 30.00 mm  |
| Poids du produit                         | 490,00 g  |

### COULEURS ET MATÉRIAUX

|                     |       |
|---------------------|-------|
| Matériau du boîtier | Métal |
| Matériau de corps   | Métal |

### TEMPÉRATURES ET CONDITIONS DE FONCTIONNEMENT

|   |                            |
|---|----------------------------|
| Plage de température ambiante           | -40...+55 °C <sup>1)</sup> |
| Température maximale au point de test   | 85 °C <sup>2)</sup>        |
| Temp. max. admissible en cas d'anomalie | 120 °C                     |
| Humidité relative                       | 5...85 % <sup>3)</sup>     |

1)  $T_{a(max)}=50^{\circ}\text{C}$  pour un courant de 120/277V<sub>AC</sub>

2) Maximum au point T<sub>c</sub>

3) Pas de condensation, taux d'humidité absolu: 36g/m<sup>3</sup>

### Durée de vie

|         |                       |
|---------|-----------------------|
| Vie ECG | 80000 h <sup>1)</sup> |
|---------|-----------------------|

1) A t<sub>case</sub> = 75 °C au point T<sub>c</sub> / taux de défaillance de 10 %

### DONNÉES SUPPLÉMENTAIRES SUR LE PRODUIT

|  |  |
|--|--|
| Notes bas de page util. uniquem. produit | Pas d'allumage/extinction possible des lampes via l'interface 0...10 V |
|--|--|

### CAPACITÉS

|                                       |                            |
|---------------------------------------|----------------------------|
| Gradable                              | Oui                        |
| Gradateur                             | 2DIM / 1...10 V / AstroDIM |
| Plage de gradation                    | 30...100 %                 |
| protection contre la surchauffe       | Oui                        |
| Protection contre la surcharge        | Automatique et réversible  |
| Charge à vide                         | Oui                        |
| Protection contre les courts-circuits | Oui                        |

|  |        |
|--|--------|
| Longueur max. entre ballast et lampe REM | 10 m   |
| Pour appareil avec classe de protec      | I / II |

## CERTIFICATS ET NORMES

|                      |   |
|----------------------|---|
| Labels et agréments  | CE / ENEC 15 / UR / CQC   |
| Normes               | Conformément à EN 61347-1 / Conformément à EN 61347-2-13 / Conformément à EN 62384 / Conformément à EN 55015:2006 + A1:2007 + A2:2009 / Conformément à EN 61547 / Conformément à FCC 47 part 15 class A / Conformément à IEC 61000-3-2 / Conformément à IEC 61000-3-3 / UL-8750 |
| Classe de protection | II  |
| Type de protection   | IP64  |

## DONNÉES LOGISTIQUES

|                                  |             |
|----------------------------------|-------------|
| Plage de température de stockage | -25...80 °C |
|----------------------------------|-------------|

## ÉQUIPEMENT / ACCESSOIRES











- OT Programmer hardware for configuration of 2DIM ECGs necessary
- Programmable via Tuner4TRONIC software

## INFORMATIONS SUPPLÉMENTAIRES SUR LE PRODUIT

- 800 mA type: Default output current is 700 mA without any resistor connected to the LEDset port.
- 1250 mA type: Default output current is 1000 mA without any resistor connected to the LEDset port.
- 1400 mA type: Default output current is 1000 mA without any resistor connected to the LEDset port.
- The LEDset2 interface is disabled by default and needs to be activated by the programming software. In this case the LEDset2 interface is activated the external thermal protection feature is disabled.
- The driver withstands an input voltage of up to 350 Vac for a maximum of two hours.
- The driver may shut down the load if the input voltage of the load is below the allowed minimum output voltage until the short circuit is removed or the correct load is connected and a power off/on cycle is performed.
- In case the input voltage of the load exceeds the output voltage range of the driver, it automatically reduces the output current to keep the output voltage controlled to the maximum allowed output voltage.
- The driver automatically reduces the output current in case the maximum allowed output power is exceeded, as long as the input voltage of the load is within the declared output voltage range of the driver. In all other cases the driver may shut down the load.
- The driver may shut down in case no load is connected to the driver output until the correct load is connected and a power off/on cycle is performed. Hot-plug of the load or external switching on the secondary side is not allowed.
- The EQUI (housing) shall be connected to the heat sink of the LED module to improve the surge withstand capability of the system and EMI in critical luminaires.
- By default the LEDset / NTCset / Prog+ port is set as NTCset port in resistor based mode with following values: start derating: 6.3 kOhm, end derating 5.0 kOhm, derating level 50 %.
- The default dimming mode is 0...10 V, AstroDIM-PD is disabled.- 0...10 V: 30 % minimum dimming level
- The constant lumen feature is disabled by default.
- If any output level is below the physical min level, the physical min level will be used.
- Dimming down to 14 % of the maximum rated output current could be enabled through the programming software, but the compliance with EN 61000-3-2 must be checked below 30 %.
- The driver is intended for built-in use. The luminaire manufacturer is responsible to prevent direct exposure for example to sunlight, water, snow, ice.
- Time to reach the set output current upon start-up is less than 4 s.
- Programming of the driver via Prog+ and Prog- is only allowed without powering it via L/N.
- For further details please consult the 2DIMLT2 application guide.
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## TÉLÉCHARGEMENTS

|  | Documents et certificats      | Document name                                      |
|--|-------------------------------|--|
|    | Declarations Of Conformity CE | 646953_CB ENEC Information                         |
|    | Declarations Of Conformity CE | OT 2DIMLT2P CE 3676115 211119                      |
|   | Declarations Of Conformity CE | 545682_EC-Conformity OT 50/120-277/xxx 2DIMLT2 P   |
|  | Declarations Of Conformity CE | 725761_Certificate of analysis OT50                |
|  | Declarations Of Conformity CE | 612485_UL Conformity OT 50/120_277/xxx 2DIMLT2 P   |
|  | Certificates                  | 600317_ENEC certificate OT 2DIMLT2 P               |
|  | Certificates                  | 600316_CB certificate OT 50 2DIMLT2 E              |
|  | Certificates                  | 617035_CCC Certificate OT 50/120-277/xxx 2DIMLT2 P |
|  | Certificates                  | OT 50 2DIMLT2P ENEC 01112 080120                   |
|  | Certificates                  | OT 50 2DIMLT2P CB DK91169UL 080120                 |

## DONNÉES LOGISTIQUES

| Code produit  | Unité d'emballage (Pièces/Unité) | Dimensions (longueur x largeur x hauteur) | Poids approximatif | Volume                |
|---------------|----------------------------------|---|--------------------|-----------------------|
| 4052899173781 | Sans emballage individuel<br>1   |   | 490.00 g           |                       |
| 4052899173798 | Carton de regroupement<br>20     | 368 mm x 338 mm x 85 mm                   | 10492.00 g         | 10.57 dm <sup>3</sup> |

Le code produit mentionné décrit la petite quantité d'unité qui peut être commandée. Une unité peut contenir un ou plusieurs produits. Lorsque vous passez la commande, merci de bien vouloir entrer une unité ou un multiple d'une unité.

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## AVERTISSEMENT

Sous réserve de modifications. Sauf erreur ou omission. Veuillez à toujours utiliser la version la plus récente.