

OT 100/ 220-240/1A4 2DIM P7

OPTOTRONIC - 2DIM NFC IP67 | 2DIM, NFC – constant current LED drivers



Caractéristiques produit

- Fonctionnalité 2DIM (AstroDIM, 1...10 V)
- Wide output current range
- Adjustable and Constant Lumen Output (CLO)
- Protection contre les courts-circuits, surcharges et surchauffes
- 1...10 V dimming (minimum 10%)

Avantages produits

- Easily programmable by NFC (AstroDIM / Constant lumen)
- Protection contre les surtensions : jusqu'à 10 kV
- Lifetime: up to 100,000 h

Domaines d'application

- Éclairage public et urbain
- Industry lighting
- Convient aux luminaires de classe de protection I

Fiche technique

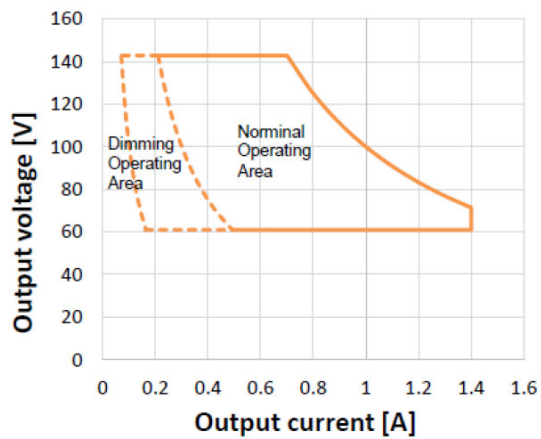
Données électriques

Tension nominale	220...240 V
Tension à l'entrée	198...264 V
Intensité nominale	050 A
Fréquence du réseau	50...60 Hz
Facteur de puissance λ	≥ 095
Total harmonic distortion	$< 10 \% ^{1)}$
Puissance dissipée	11 W
Courant d'appel	62 A ²⁾
Nbre max. de BE sur disjoncteur 10 A	8
Nombre max des ECG sur disjoncteur 16A	13
Nombre max des ECG sur disjoncteur 25A	21
Tension max. entre Phase/Neutre et Terre	10 kV
Tension maximum entre Phase/Neutre	6 kV
Puissance de sortie	50...100 W
Maximum output power	100 W
Efficiency in full-load	91 % ³⁾
Courant de sortie	700...1400 mA
Default output current	700 mA
Output current tolerance	$\pm 5 \%$
Output ripple current (100 Hz)	$< \pm 5 \%$
Minimum output current	400 mA
Galvanic isolation	Double
Tension de sortie	72...144 V
U-OUT	200 V

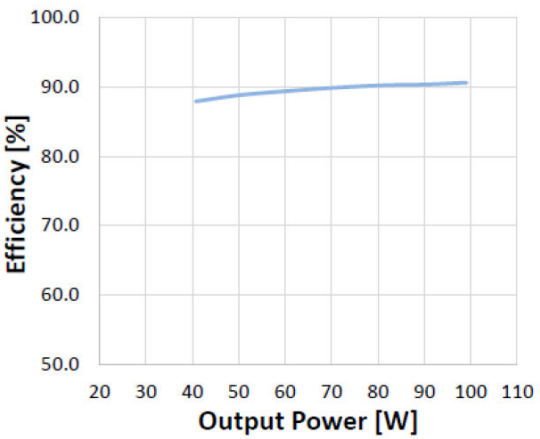
1) At full load

2) Max, $t_h = 155\mu s$

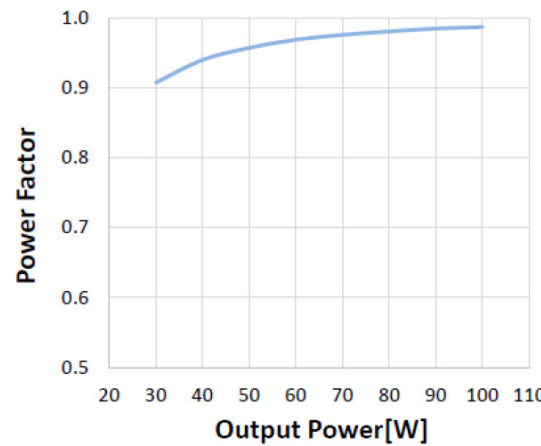
3) at 230 V, 50 Hz



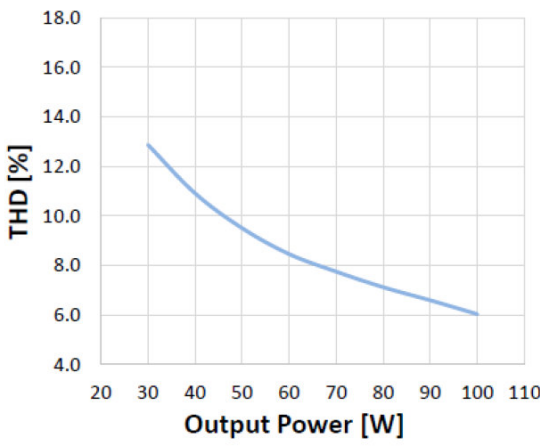
OT 100 2DIM NFC IP67 Typical Operation Window



OT 100 2DIM NFC IP67 Typical Efficiency vs. Load (230V 50 Hz)

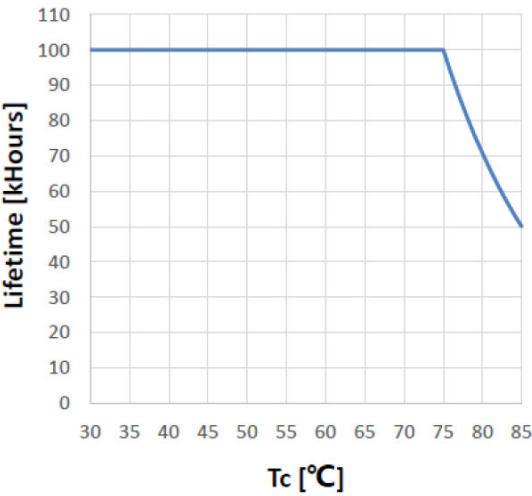


OT 100 2DIM NFC IP67 Typical Power Factor vs. Load



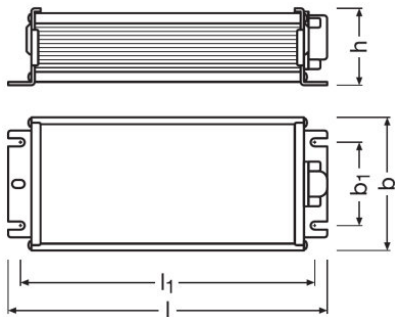
OT 100 2DIM NFC IP67 Typical THD vs Load

Fiche de données produit



OT 100 2DIM NFC IP67 Lifetime vs. Case Temp

Dimensions & poids



Longueur	1644 mm
Largeur	685 mm
Hauteur	396 mm
Entraxe de fixation, longueur	151.6 mm
Entraxe de fixation, largeur	42,9 mm
Poids du produit	72000 g
Section du câble au primaire	1,0 mm²
Section du câble au secondaire	1,0 mm²
Longueur à dénuder, côté primaire	10 mm
Longueur à dénuder, côté secondaire	10 mm

Fiche de données produit

Longueur câbles/conducteurs, au second.	300±20 mm
Longueur câbles/conducteurs, au primaire	590±20 mm
Longueur câbles/conducteurs, entrée gradation	220±20 mm

Couleurs & matériaux

Matériau du boîtier	Aluminium
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Température

Plage de température ambiante	-40...+55 °C
Plage de température de stockage	-40...+85 °C
Température maximale au point de test	85 °C
Temp. max. admissible en cas d'anomalie	120 °C
Humidité relative	5...95 % ¹⁾

¹⁾ Non condensing, absolute humidity: 36g/m³

Durée de vie

Vie ECG	50000 / 100000 h ¹⁾
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¹⁾ At maximum T_c = 85°C / 10% failure rate / At maximum T_c = 75°C / 10% failure rate

Capacités

Gradable	Oui
Gradateur	AstroDIM / 1...10 V / Pulse Width Modulation
Plage de gradation	10...100 %
Pour appareil avec classe de protec	I
Fonction de la lumière constante	Oui
Entrée négative du coeff de température	Non
Protection contre les courts-circuits	Automatique et réversible
Charge à vide	Automatic reversible
Intended for no-load operation	Non
Longueur max. entre ballast et lampe	2,0 m ¹⁾
Protection contre la surcharge	Automatique et réversible
Number of channels	1

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

Programming

Tuner4TRONIC	Oui
Programming device	NFC

Certificats & Normes

Fiche de données produit

Type de protection	IP67
Normes	Conformément à EN 61347-1/Conformément à EN 61347-2-13/Conformément à EN 55015/Conformément à EN 61547/Conformément à EN 61000-3-2/Conformément à EN 61000-3-3/Conformément à EN 62384/EN 60598-1(ED.8)
Labels et agréments	CE / CCC / RCM / ENEC 05 / TISI

Données logistiques

Nomenclature douanière	85044083900
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Environmental information

Information according Art. 33 of EU Regulation (EC) 1907/2006 (REACH)	
Date of Declaration	26-10-2023
Primary Article Identifier	4062172060677
Candidate List Substance 1	Lead
CAS No. of substance 1	7439-92-1
Safe Use Instruction	The identification of the Candidate List substance is sufficient to allow safe use of the article.
Declaration No. in SCIP database	7aedf4ac-7bf9-4b37-9aaa-52cb6188fe41

Texte de la feuille de

- Input overvoltage protection: the driver withstands an input voltage up to 350 Vac for a maximum of two hours, shut down of the output load might occur in case the supply voltage exceeds the declared input voltage range;
- Output short circuit protection: short circuit current is limited to the actual output current setting without damage to the unit. See typical operating window graph for details;
- Input voltage range: Nominal operation at 198 – 264Vac. Workable at 120 – 277Vac without safety issue (refer to [8] Typical Input Voltage vs. Load), but normal performance such as THD, EMI, lifetime etc are not guaranteed;
- Over temperature protection: the driver is protected against temporary overheating by shutting down until the overheating eliminated; Auto-reversible when temperature back to normal;
- Not suitable to be mounted in ceiling corner
- The LED control gear cannot be abutted against or covered by normally flammable materials or used in installations where building insulation or debris is, or may be, present in normal use.
- The external flexible cable or cord of this driver cannot be replaced; if the cord is damaged, the driver shall be destroyed.
- The dimmer should fulfill at least basic insulation between control voltage and dimming circuit (for Australia and New Zealand).
- The startup time to reach the set output current is less than 2s.
- The protective earth (GNYE/PE wire, housing) has to be connected to the heat sink of the LED module to improve the capability of the system to withstand a surge and EMI in critical luminaires.
- For further details please consult the 2DIMLT2 application guide.
- Output over load/voltage protection: In case the input voltage of the load exceeds the output voltage range which is auto defined by output current setting of the driver ($V_o = P_o / I_o$), it automatically reduces the output current. Auto-reversible without mains power on/off;
- No load protection: the driver automatically adjusts the output voltage to the maximum output voltage which is auto defined by output current setting if no load is connected. Auto-reversible with the correct load connected;

Données de téléchargement

Dossier	
	User instruction OPTOTRONIC 2DIM P7
	Déclaration de Conformité ENEC Certificate
	CAD data OT 100 P7 STEP 300323

Fiche de données produit

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.

Données logistiques

Code produit	Description produit	Unité d’emballage (Pièces/Unité)	Dimensions (longueur x largeur x hauteur)	Volume	Poids brut
4062172060677	OT 100/ 220-240/1A4 2DIM P7	Carton de regroupement 10	469 mm x 253 mm x 128 mm	15.19 dm ³	8010.00 g

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.

Confidentialité des données

This OSRAM driver can be configured using the Tuner4TRONIC software. This requires registering on www.myosram.com and downloading the Tuner4TRONIC software from the Internet. The Tuner4TRONIC software enables users to access and view the operational data of a luminaire or driver via the corresponding programming interfaces. A password key (Config Lock) must be set up in the driver via the Tuner4TRONIC software in order to control which users can access and view operational data. Follow the instructions for password setup. To grant an external person or company rights to access or view operational data, you can assign password keys. In this case, however, you are responsible for ensuring that the third party concerned takes notice of the information described here. However, OSRAM can read out operating data from devices for maintenance and service purposes even when a password key has been assigned. In individual cases, OSRAM will also use its access rights in order to optimize or improve driver hardware and driver functions. In accordance with data privacy principles, any user of operating data (luminaire manufacturers, third parties with access rights) must ensure that personal data (e.g. name, address, location IDs) are only merged with the prior written consent of the person (end user) concerned. The respective user of the operating data is responsible for providing evidence of consent.

Avertissement

OSRAM products must never be directly exposed to external influences. Always provide adequate protection for relevant applications (covers, housings etc.) otherwise any warranty claim will be invalid.