

OT DX 165/220...240/1A0 DIMA LT2 E

OPTOTRONIC - DEXAL NFC IP20 | D4i, DEXAL, AstroDIM, StepDIM - constant current LED drivers



Caractéristiques produit

- Plage de courant de sortie : 70...1 050 mA
- Consommation d'énergie en mode veille : < 0,5 W

Avantages produits

- For Zhaga Book18 Luminaires and D4i certified incl. Parts 25x + AUX
- Faible tolérance pour l'efficacité lumineuse, avec une faible tolérance de courant de sortie de $\pm 3\%$

Domaines d'application

- Éclairage public et urbain
- Industrie
- Convient pour les applications en extérieur dans les luminaires avec IP > 54
- Adapté pour l'utilisation des luminaires extérieurs de protection classe I et II



Fiche technique

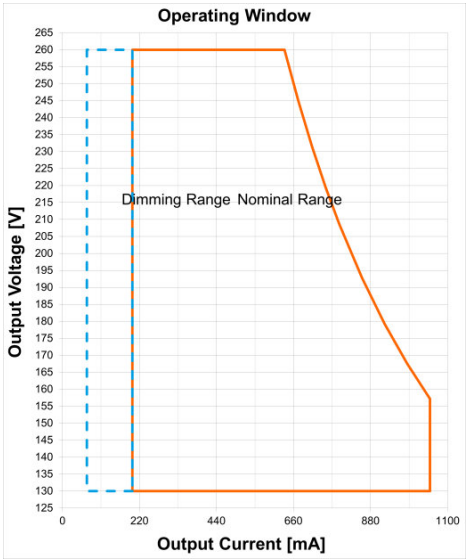
Données électriques

Tension nominale	220...240 V
Tension à l'entrée	198...264 V ¹⁾
Tension admissible	176...276 V ²⁾
Intensité nominale	078 A
Fréquence du réseau	0/50/60 Hz Hz ²⁾
Facteur de puissance λ	077C099 ³⁾
Total harmonic distortion	< 10 % ⁴⁾
Puissance dissipée	13 W ⁵⁾
Courant d'appel	77 A ⁶⁾
Nbre max. de BE sur disjoncteur 10 A	5 ⁷⁾
Nombre max des ECG sur disjoncteur 16A	9 ⁷⁾
Nombre max des ECG sur disjoncteur 25A	14 ⁷⁾
Tension max. entre Phase/Neutre et Terre	10 kV ⁸⁾
Tension maximum entre Phase/Neutre	6 kV ⁹⁾
Puissance de sortie	165 W ¹⁰⁾
Maximum output power	165 W
Efficiency in full-load	94 % ¹¹⁾
Courant de sortie	200...1050 mA
Default output current	700 mA
Output current tolerance	±3 % ¹²⁾
Output ripple current (100 Hz)	10 %
Minimum output current	70 mA
Galvanic isolation	Double
Tension de sortie	130...260 V
U-OUT	300 V
Tension d'entrée (port SD)	220...240 V ¹³⁾
Auxiliary Power Supply	24 V ¹⁴⁾
Output current LEDset open	70 mA
Output current LEDset shorted	Not allowed

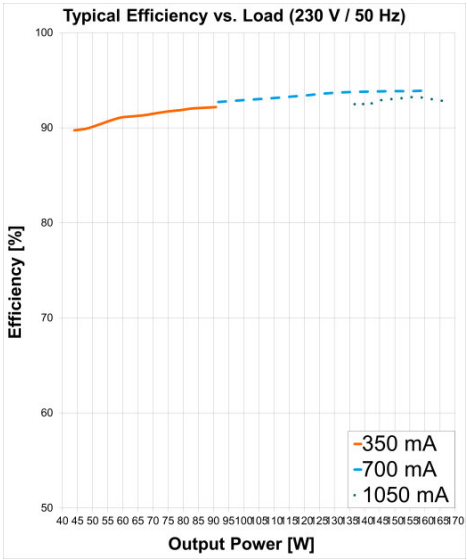
1) Plage de tension autorisée
2) Additional fuse needed in DC operation
3) Full Load/Half Load at 230V 50Hz
4) Max. output power at 230 V_{AC}
5) Maximum
6) A 180 µs
7) Type B
8) Single pulse 10kV / 12 Ohm (1.2/50 µs)
9) @ 2 Ohm, acc. to EN61547

Fiche de données produit

- 10) Max. 75% in DC operating mode
- 11) at 230 V, 50 Hz
- 12) +/- 5% for LEDset down to 300mA
- 13) with external component 'OT DX SD BOX' only
- 14) 3W average, 6W peak power



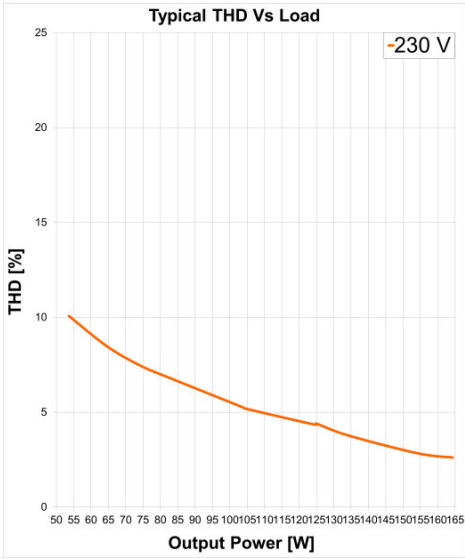
Operating Window OT DX 165 1A0 DIMA LT2 E



Typical Efficiency vs. Load (230 V 50 Hz) OT DX 1651A0 DIMA LT2 E

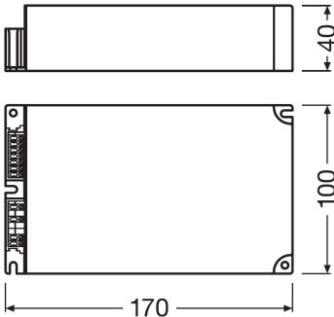


Typical Power Factor vs. Load OT DX 165 1A0 DIMA LT2 E



Typical THD Vs Load OT DX 165 1A0 DIMA LT2 E

Dimensions & poids



Longueur	1700 mm
Largeur	1000 mm
Hauteur	400 mm
Entraxe de fixation, longueur	160,0 mm
Entraxe de fixation, largeur	90,0 mm
Poids du produit	105000 g
Section du câble au primaire	0,2...1,5 mm² ¹⁾
Section du câble au secondaire	0,2...1,5 mm² ¹⁾
Longueur à dénuder, côté primaire	8,5...9,5 mm

¹⁾ Solid/ Flexible Leads

Fiche de données produit

Température

Plage de température ambiante	-40...+55 °C
Plage de température de stockage	-25...85 °C
Température maximale au point de test	90 °C
Temp. max. admissible en cas d'anomalie	120 °C
Humidité relative	5...85 % ¹⁾

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

Durée de vie

Vie ECG	100000 h ¹⁾
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¹⁾ At T_{case} = 78°C at T_c point / 10% failure rate

Durée de vie attendue

Nom du produit				
OT DX 165/220...240/1A0 DIMA LT2 E	Température ambiante (électronique de gestion)	55	45	43
	Température au point TC [°C]	90	80	78
	Durée de vie (h)	50000	85000	100000

Capacités

Gradable	Oui
Gradateur	AstroDIM / DALI/DEXAL/D4i / StepDIM ¹⁾
Plage de gradation	10...100 %
Pour appareil avec classe de protec	I / II
Fonction de la lumière constante	Oui
Entrée négative du coeff de température	Oui
Protection contre les courts-circuits	Oui
Charge à vide	Oui
Intended for no-load operation	Non
Longueur max. entre ballast et lampe	2,0 m ²⁾
Protection contre la surcharge	Oui
LEDset	Oui
Number of channels	1
DALI-2 Energy Data	Oui ³⁾
DALI-2 Diagnostic Data	Oui ⁴⁾

¹⁾ StepDIM functionality with external component 'OT DX SD BOX' only

²⁾ Output wires must be routed as close as possible to each other

Fiche de données produit

3) Acc. DALI part 252

4) Acc. DALI part 253

Programming

Tuner4TRONIC	Oui
Tuner4TRONIC Field App	Oui
Programming device	DALI / NFC

Programmable features

Constant Lumen	Oui
Thermal Protection	Oui
Driver Guard	Oui
AstroDIM	Oui
StepDIM	Oui ¹⁾
Emergency Mode	Oui
DALI-2 Luminaire Data	Oui ²⁾
Configuration Lock	Oui

1) StepDIM functionality with external component 'OT DX SD BOX' only

2) Acc. DALI part 251

Certificats & Normes

Type de protection	IP20
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 B/Conformément à IEC 61000-3-2/Conformément à IEC 61000-3-3/Conformément à IEC 62386-101/Conformément à IEC 62386-102/Conformément à IEC 62386-207/Acc. to IEC 62386-150/Acc. to IEC 62386-250/Acc. to IEC 62386-251, -252, -253
Labels et agréments	CE / ENEC / VDE / VDE-EMC / CCC / EL / DALI-2 / D4i / RCM

Données logistiques

Nomenclature douanière	85044083900
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Environmental information

Information according Art. 33 of EU Regulation (EC) 1907/2006 (RECh)	
Date of Declaration	03-11-2023
Primary Article Identifier	4052899999695

Fiche de données produit

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	a94e5118-1deb-440e-ae82-f1b5c4081970

Texte de la feuille de

- Shut down of output load happens if the input voltage of the load is below the allowed minimum output voltage of the driver. The driver automatically tries to switch on the load cyclically.
- 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 is protected against temporary overheating by automatically reduction of the output current.
- Several external NTCs are supported for temperature protection of the LED module or luminaire. The type of NTC can be selected in the programming software in the temperature based mode. By default the resistor based mode is activated with following values: start derating: 6.3 kOhm, end derating 5.0 kOhm, shut off: 4.3 kOhm, derating level 50 %.
- 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.
- not relevant
- The DEXAL interface is polarity sensitive, even if the DEXAL bus power supply in the driver is turned off. Therefore the polarity of all connected drivers should not be mixed.
- For efficiency and standby power measurement, the D4i bus power supply shall be switched off by using Tuner4TRONIC. Refer to www.tuner4tronic.com.

Données de téléchargement

Dossier	
	User instruction OPTOTRONIC Outdoor
	Brochures Technical application guide DEXAL LED drivers (EN)
	Brochures 4 DIM NFC G3 CE LED drivers and T4T C (EN)
	Déclaration de Conformité OT VDE ENEC 40050684 290923
	Déclaration de Conformité OT EMC 40050085 200220
	Déclaration de Conformité OT DX DIMA LT2 E CB DE1 63485 060520
	Déclaration de Conformité OT EMC 40044675 031022
	Déclarations de conformité OT DX DIMA LT2 E CE 3745354 060921
	CAD data OT DX 165 DIMA LT2E IGS 120220

Fiche de données produit

	CAD data OT DX 165 DIMA LT2E STEP 120220
	CAD Data 2-dim OT DX 165 DIMA LT2E CAD2PDF 120220
	CAD data 3-dim OT DX 165 DIMA LT2E CAD3PDF 120220

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.

ISOLATION	Input / Mains	EQUI	DALI	LEDset	LED Output	Case	AUX	LSI	NTC
Input / Mains	-	Double	SELV	Double	Double	Double	SELV	SELV	Double
EQUI	Double	-	Basic	Basic	Basic	Basic	Basic	Basic	Basic
DALI	SELV	Basic	-	Basic	Basic	Double	-	-	Basic
LEDset	Double	Basic	Basic	-	-	Double	Basic	Basic	-
LED Output	Double	Basic	Basic	-	-	Double	Basic	Basic	-
Case	Double	Basic	Double	Double	Double	-	Double	Double	Double
AUX	SELV	Basic	-	Basic	Basic	Double	-	-	Basic
LSI	SELV	Basic	-	Basic	Basic	Double	-	-	Basic
NTC	Double	Basic	Basic	-	-	Double	Basic	Basic	-

Données logistiques

Code produit	Description produit	Unité d'emballage (Pièces/Unité)	Dimensions (longueur x largeur x hauteur)	Volume	Poids brut
4052899999695	OT DX 165/220...240/1A0 DIMA LT2 E	Carton de regroupement 10	303 mm x 285 mm x 205 mm	17.70 dm ³	11224.00 g

Fiche de données produit

Données logistiques

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.

Accessoires optionnels

Description produit	Nom de l'accessoire	Code de l'accessoire
OT DX 165/220...240/1A0 DIMA LT2 E	OT DX SD BOX	4062172048002

Confidentialité des données

This OSRAM driver can be configured using the Tuner4TRONIC software. This requires registering on www.myosram.com and downloading theTuner4TRONIC 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

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