

IT DALI 110/120...240/1A0 P7

ICUTRONIC - DALI (AstroDIM) IP67 | Constant current LED drivers



Cechy produktu

- Available with different wattage: 20 W, 40 W, 75 W, 110 W, 150 W, 200 W, 240 W
- AstroDim functionality
- DALI-2 certified (Part 251, 252, 253)
- DALI dimming (min.10%)
- Output current range 350...1050 mA
- Napięcie zasilania: 120...240 V

Korzyści ze stosowania produktu

- Versatile DALI driver due to flexible output characteristic
- Fully programmable via T4T software (DALI / AstroDIM / Constant Lumen)
- Wysoka ochrona przed przepięciem: do 10 kV
- IP rating: IP67 (Independent installation)
- High efficiency and reliability
- 5 years guarantee

Obszar zastosowań

- Industry lighting
- Oświetlenie ulic i przestrzeni miejskich
- Nadaje się do użytku w oprawach zewnętrznych o klasie ochronności I i II



Dane techniczne

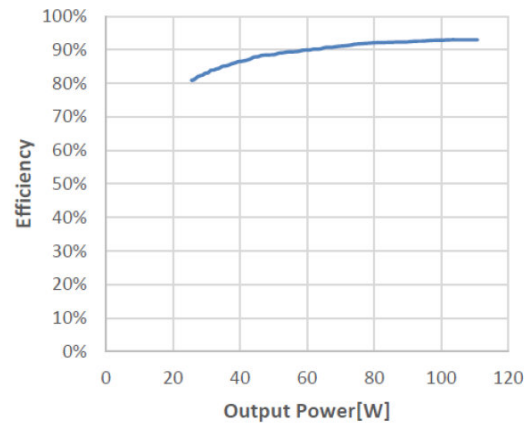
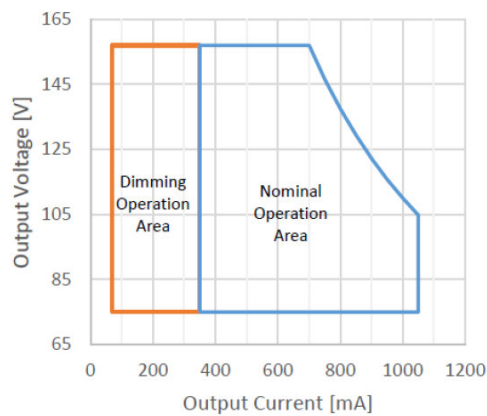
Dane elektryczne

Napięcie nominalne	120...240 V
Napięcie wejściowe, prąd zmienny	120...264 V
Prąd znamionowy	053 A ¹⁾
Częstotliwość sieciowa	50/60 Hz
Współczynnik mocy λ	084C099 ²⁾
Całkowite zniekształcenie harmoniczne	< 10 % ³⁾
Straty mocy	9,0 W ⁴⁾
Networked standby power [AGGR]	<0.50 W ⁵⁾
Początkowy prąd rozruchowy	66 A ⁶⁾
Maks. liczba SE przy bezpieczniku 10 A	9 ⁷⁾
Maksymalna liczba SE na wyłącznik 16 A	14 ⁷⁾
Maks. liczba SE przy bezpieczni 25 A (B)	22 ⁷⁾
Odporność na nap. udarowe (L/N-uziom)	10 kV ⁸⁾
Odporność na napięcie udarowe (L-N)	6 kV
Znamionowa moc	110 W
Maksymalna moc wyjściowa	110 W
Efficiency in full-load	93 % ⁵⁾
Znamionowy prąd wyjściowy	350...1050 mA ⁹⁾
Default output current	700 mA
Tolerancja prądu wyjściowego	±5 %
Częstotliwość prądu wyj. (100 Hz)	+/- 5 % ¹⁰⁾
Output PSTLM	≤1
Output SVM	≤0.4
Minimalny prąd wyjściowy	70 mA ¹¹⁾
Izolacja galwaniczna	Double
Znamionowe napięcie wyjściowe	75...157 V
U-OUT (napięcie robocze)	180 V
Maks. liczba SE na 16 A MCB z EBN-OS	30

1) Vin 230v 50Hz
2) Pełne obciążenie przy napięciu 230 V/50 Hz
3) At full load, 230 V, 50 Hz / see graphs
4) At Full load, 230 V, 50 Hz
5) at 230 V, 50 Hz
6) Max, th = 145 µs @ 50 % Ipk
7) Typ B
8) L - N acc to EN 61547 (>15 pulses) / L/N – PE acc to EN 61547 (>15 pulses)
9) Default 700 mA; 200...1050 mA adjustable
10) Ripple / average @ 100 Hz

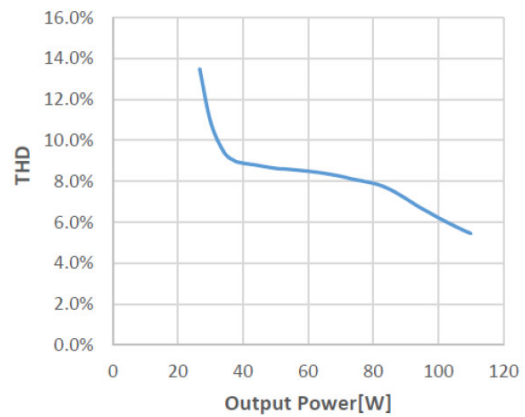
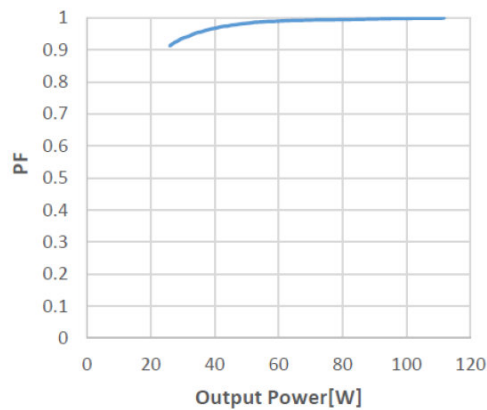
Karta katalogowa produktu

11) Physical Minimum Dimming Current



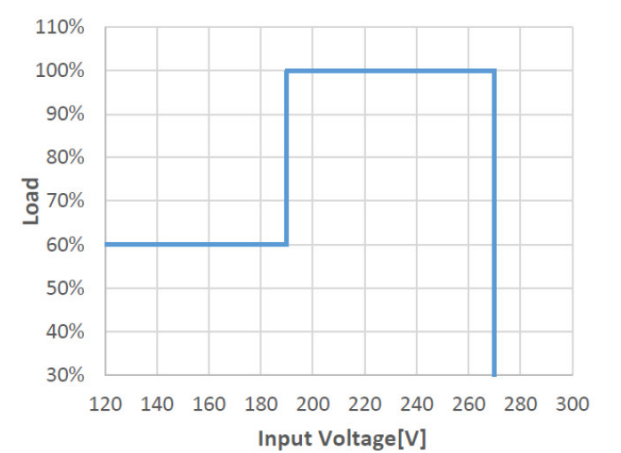
IT DALI 110 120 240 1A0 P7 Operating Window

IT DALI 110 120 240 1A0 P7 Typical Efficiency vs. Load

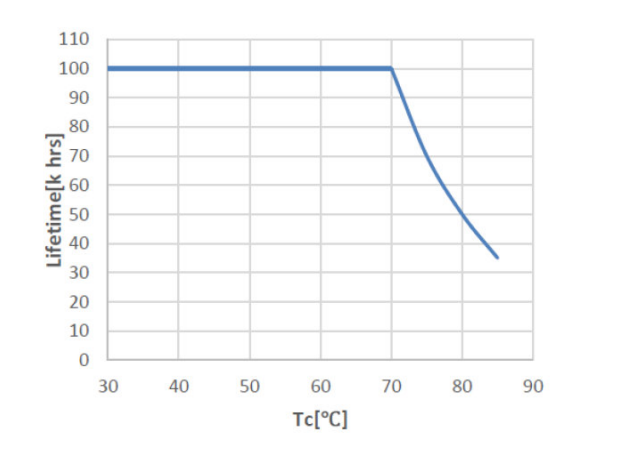


IT DALI 110 120 240 1A0 P7 Typical Power Factor vs. Load

IT DALI 110 120 240 1A0 P7 Typical THD vs Load

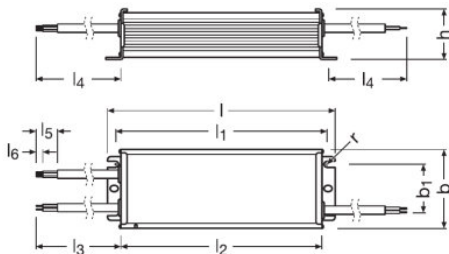


IT DALI 120-240 1A0 P7 Typical Input Voltage vs Load



IT DALI 110 120 240 1A0 P7 Lifetime vs Case Temp

Wymiary i waga



Długość	1760 mm
Szerokość	615 mm
Wysokość	395 mm
Odległość otworów montażowych, długość	163,0 mm
Odległość otworów montażowych, szerokość	38 mm
Masa produktu	65000 g
Przekrój przewodu, strona wejściowa	1,0 mm²
Przekrój przewodu, strona wyjściowa	1,0 mm²
Długość przewodu, strona wejściowa	10 mm

Temperatury i warunki pracy

Zakres temperatury otoczenia	-40...+60 °C
Zakres temperatury magazynowania	-40...+85 °C
Maks. temp. w punkcie pomiarowym tc	85 °C ¹⁾
Maks. temperatura obudowy	120 °C
Wilgotność względna	5...95 % ²⁾

¹⁾ Measured on tc point indicated on the product label.

²⁾ Bez kondensacji

Trwałość

Trwałość SE	50000 / 100000 h ¹⁾
-------------	--------------------------------

¹⁾ At maximum T_c = 80°C / 10% failure rate / At maximum T_c = 70°C / 10% failure rate

Możliwości

Ściemnianie	Tak
Interfejs ściemniany	DALI-2 / AstroDIM
Zakres regulacji	10...100 %
Nadaje się do opraw o kl. ochronności	I / II
Stały poziom strumienia świetlnego	Możliwość programowania/ Programowalne
Ujemny temp. wsp. rezystancji, wejście	Nie
Zabezpieczenie przeciwzwarciowe	Tak
Bez zabezp. przeciwprzeciążeniowego	Tak
Intended for no-load operation	Nie
Maks. dł. przewodów do lampy/modułu LED	2,0 m ¹⁾
Zabezpieczenie przeciwprzeciążeniowe	Tak
LEDset	Nie
Number of channels	1
DALI-2 Energy Data	Tak ²⁾
DALI-2 Diagnostic Data	Tak ³⁾

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

²⁾ Acc. DALI part 252

³⁾ Acc. DALI part 253

Programming

Box programming	No
Tuner4TRONIC	Tak
Tuner4TRONIC Field App	Nie
Programming device	DALI

Programmable features

Constant Lumen	Tak
Driver Guard	Nie
AstroDIM	Tak
StepDIM	Nie
MainsDIM	Nie
Emergency Mode	Nie
Configuration Lock	Tak
DALI-2 Luminaire Data	Tak ¹⁾

¹⁾ Acc. DALI part 251

Certyfikaty i Normy

Typ zabezpieczenia	IP67
Normy	Wg. EN 61347-1/Wg. EN 61347-2-13/Wg. EN 55015/Wg. EN 61547/Wg. EN 61000-3-2/Wg. EN 61000-3-3/Acc. to EN 60598-1 (ED.8)/Wg. EN 62384
Znaki stacji badawczych	CCC / CE / TISI / RCM / ENEC / UKCA / DALI-2 / IP67

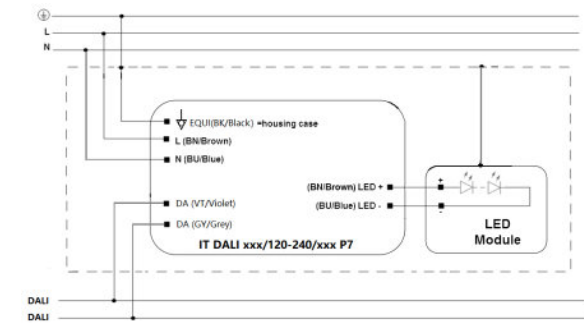
Dane logistyczne

Kod taryfy celnej	85044083900
-------------------	-------------

Environmental information

Information according Art. 33 of EU Regulation (EC) 1907/2006 (REACH)	
Date of Declaration	22-05-2023
Primary Article Identifier	4052899620339
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	48a8586f-acc2-4e93-86c9-97154d1cccb3

Schemat połączeń



Item	Value	Unit	Remarks
INPUT	Cable cross section	1.0	mm²
	Wire preparation length	10	mm
	Type of wire	Flexible three core cable	
	Lead length	300 ± 20	mm
OUTPUT	Cable cross section	1.0	mm²
	Wire preparation length	10	mm
	Type of wire	Flexible two core cable	
	Lead length	300 ± 20	mm
DIMMING	Cable cross section	0.3	mm²
	Wire preparation length	10	mm
	Type of wire	Flexible two core cable	
	Lead length	220 ± 20	mm
CABLE LENGTH	LED+LED-	< 2	m

IT DALI 120 240 P7 Wiring Diagram

IT DALI 120 240 P7 Wiring Diagram

Karta katalogowa, teks

- 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;
- Input voltage range: Nominal operation at 198 – 264Vac. Workable also at 120 – 198Vac without safety issue (refer to graph Typical Input Voltage vs. Load), but normal performance such as THD, EMI, lifetime etc are not guaranteed;
- Output overload/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. The driver needs a power cycle to restart or DALI command with the correct load connected.
- Output short circuit protection: shut down of driver occur in case of output short circuit without damage to the unit.
- 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 of the driver ($V_o=P_o/I_o$) if no load is connected. The driver needs a power cycle to restart with the correct load connected.
- Over temperature protection: the driver is protected against temporary overheating by shutting down until the overheating eliminated; Auto-reversible when temperature back to normal;
- Disconnect the power before servicing. Terminal block is not included, installation must be performed by qualified person;
- 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.
- 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 minimum clearance distance from the top and sides of the controlgear to normally flammable building elements is $A=B=C=Min.10mm$, this clause does not apply when the LED driver is built-in the luminaires (for Australia and New Zealand).
- The startup time to reach the set output current is less than 2s.
- For further details please consult the application note;

Pobierz dane

Plik	
	User instruction User Instruction
	Certyfikaty CB Certificate of OT DALI P7
	Certyfikaty EAC Certificate of OT products
	Certyfikaty ENEC Certificate of IT DALI P7
	Certyfikaty CCC certificate
	Deklaracje zgodności IT DALI P7 CE 4287284 120822

Karta katalogowa produktu

	Deklaracje zgodności IT DALI P7 UK DoC 4287289 120822
	Dane CAD IT DALI 110 1A0 P7 STEP 300323

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.

Dane logistyczne

Kod produktu	Opis produktu	Opakowanie (liczba produktów / opakowanie)	Wymiary (długość x szerokość x wysokość)	Objętość	Waga brutto
4052899620339	IT DALI 110/120...240/1A0 P7	Karton wysyłkowy 15	449 mm x 252 mm x 163 mm	18.44 dm ³	10412.00 g

Wymieniony kod produktu oznacza najmniejszą ilość produktu, jaka może być zamówiona. Jednostka transportowa może zawierać jedną sztukę lub więcej. Składając zamówienie prosimy o zamawianie ilości odpowiadających jednej lub wielokrotności jednostki transportowej.

Prywatność danych

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.

Odnośniki/łącza

Karta katalogowa produktu

* For more information on the multi-level guarantee and the terms and conditions of the guarantee visit <https://www.inventronics-light.com/multilevel-guarantees>

Oświadczenie

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