

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

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



Характеристики продукта

- Wide output current range
- Adjustable and Constant Lumen Output (CLO)
- Защита от короткого замыкания, перегрузки и повышенной температуры
- 1...10 V dimming (minimum 10%)

Преимущества продукта

- Easily programmable by NFC (AstroDIM / Constant lumen)
- Защита от сильного перенапряжения: до 10 кВ
- Lifetime: up to 100,000 h

Области применения

- Уличное и городское освещение
- Industry lighting
- Подходит для использования в светильниках с классом защиты I

Technical data

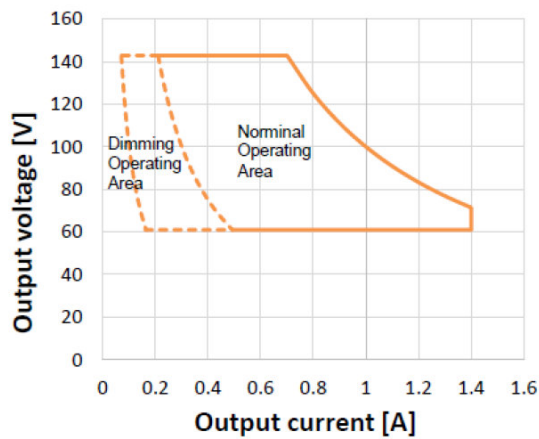
Электрические параметры

Номинальное напряжение	220...240 В
Входное напряжение сети переменного тока	198...264 В
Номинальный ток	050 А
Частота сети	50...60 Hz
Коэффициент мощности λ	≥ 095
Сумм.коэф.гармонических искажений	< 10 % ¹⁾
Потеря мощности устройства	11 Вт
Пусковой ток	62 А ²⁾
Макс. кол-во ЭПРА на выключател 10 А (В)	8
Макс. кол-во ЭПРА на выключател 16 А (В)	13
Макс. кол-во ЭПРА на выключател 25 А (В)	21
перенапряж (фаза/нейтраль-заземл)	10 кВ
перенапряжение (фаза/нейтраль)	6 кВ
Номинальная выходная мощность	50...100 Вт
Максимальная выходная мощность	100 Вт
Efficiency in full-load	91 % ³⁾
Номинальный выходной ток	700...1400 mA
Default output current	700 mA
Допустимое отклонение выходного тока	±5 %
Пульсир.комп.пост.тока на вых.(100 кГц)	< ±5 %
Максимальный выходной ток	400 mA
Гальваническая развязка	Double
Номинальной выходное напряжение	72...144 В
U-OUT (рабочее напряжение)	200 В

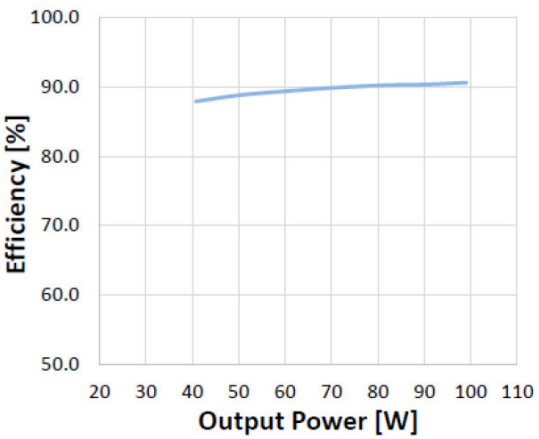
¹⁾ At full load

²⁾ Max, t_h = 155µs

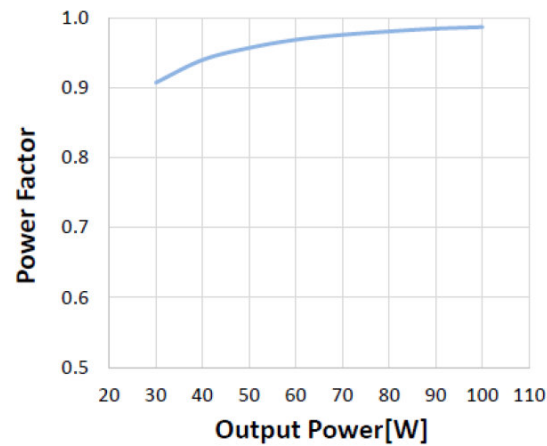
³⁾ at 230 V, 50 Hz



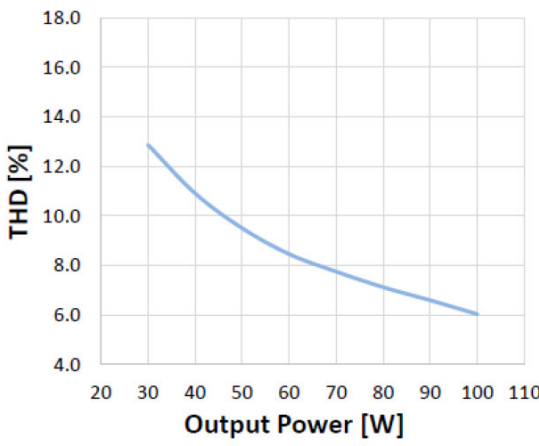
OT 100 2DIM NFC IP67 Typical Operation Window



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

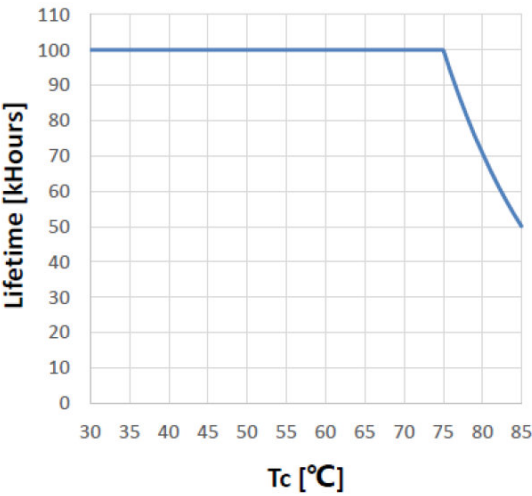


OT 100 2DIM NFC IP67 Typical Power Factor vs. Load



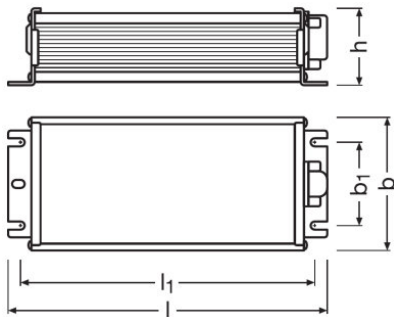
OT 100 2DIM NFC IP67 Typical THD vs Load

Техническое описание продукта



OT 100 2DIM NFC IP67 Lifetime vs. Case Temp

Размеры и вес



Длина	1644 mm
Ширина	685 mm
Высота	396 mm
Расстояние монтажного отверстия, длина	151.6 mm
Расстояние монтажного отверстия, ширина	42,9 mm
Вес продукта	72000 g
Сечения кабеля, сторона ввода	1,0 mm ²
Сечения кабеля, сторона вывода	1,0 mm ²
Длина проволоки на стороне ввода	10 mm
Длина проволоки на стороне вывода	10 mm

Техническое описание продукта

Длина выходного кабеля	300±20 mm
Длина входного кабеля	590±20 mm
Длина кабеля, вход управления	220±20 mm

Цвета и материалы

Материал обшивки	Aluminium
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Температуры и условия управления

Диапазон температуры окружающей среды	-40...+55 °C
t хранения	-40...+85 °C
Макс.температура в контрольной точке tc	85 °C
Предельно допустимая t корпуса	120 °C
Допустимая относит. влажность при работе	5...95 % ¹⁾

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

Срок службы

Срок эксплуатации ЭПРА	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

Возможности / мощности

С регулировкой яркости	Да
Интерфейс для диммирования	AstroDIM / 1...10 V / Pulse Width Modulation
Диапазон регулировки яркости	10...100 %
Подходит для светильников,имеющ.кл.защ.	I
Функция автономн.регулир.силы света	Yes
Отриц. Темп. Коэфф на входе	Нет
Защита от короткого замыкания	Автоматический реверсивный
Защита от холостого хода	Automatic reversible
Intended for no-load operation	Нет
Макс.дл.кабеля до лампы/светодиод.мод.	2,0 m ¹⁾
Предохранитель	Автоматический реверсивный
Number of channels	1

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

Programming

Tuner4TRONIC	Да
Programming device	NFC

Сертификаты и Стандарты

Техническое описание продукта

Тип защиты	IP67
Стандарты	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 61000-3-3/Acc. to EN 62384/EN 60598-1(ED.8)
Сертификация/Соответствие стандартам	CE / CCC / RCM / ENEC 05 / TISI

Условия поставки

Код заказа	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

Текст спецификации

- 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;

Техническое описание продукта

Загрузка данных

Файл	
	User instruction OPTOTRONIC 2DIM P7
	Certificates ENEC Certificate
	CAD data OT 100 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.

Данные для заказа

Product code	Описание продукта	Упаковка (цена/шт.)	Размеры (длина x ширина x высота)	Объем	Вес брутто
4062172060677	OT 100/ 220-240/1A4 2DIM P7	Shipping carton box 10	469 mm x 253 mm x 128 mm	15.19 дм³	8010.00 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.

Политика конфиденциальности

Техническое описание продукта

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.

Примечание

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.