OT FIT 30/220...240/700 CS PC

OPTOTRONIC Phase-cut OT FIT | Compact constant current LED driver – Dimmable



Product family features

- Cable clamp housing for independent mounting
- Dimmable on the leading edge and trailing edge
- Housing for independent installation

Product family benefits

- Compatible with the most common leading-edge and trailing-edge phase dimmers
- Flexible current setting (DIPswitch – 2 to 4 currents)
- Flicker-free dimming
- Higher quality of light thanks to < 5% output ripple current
- Housing from 80% recycled plastic

© 2024, Inventronics GmbH. All rights reserved. Inventronics is a licensee of the OSRAM brand. OSRAM is a trademark of ams OSRAM.

Areas of application

- Decorative illumination
- Downlights, flat luminaires
- Hospitality
- Living areas
- Museums, residential buildings
- Offices
- Shop lighting
- Suitable for indoor SELV installations
- Suitable for luminaires of protection class I and II

© 2024, Inventronics GmbH. All rights reserved. Inventronics is a licensee of the OSRAM brand. OSRAM is a trademark of ams OSRAM.

Technical data

Electrical data

Nominal input voltage	220…240 V
Mains frequency	50…60 Hz
Input voltage AC	198…264 V [1)]
Total harmonic distortion	< 20 % [2)]
Power factor λ	0.90C…0.97 [3)]
Efficiency in full-load	84 % [4)]
Device power loss	5.0 W [5)]
Protective conductor current	<0.7 mA
Inrush current	< 10 A [6)]
Max. ECG no. on circuit breaker 10 A (B)	26
Max. ECG no. on circuit breaker 10 A (C)	26
Max. ECG no. on circuit breaker 16 A (B)	41
Max. ECG no. on circuit breaker 16 A (C)	41
Max. ECG no. on circuit breaker 25 A (B)	-
Surge capability (L/N-Ground)	2 kV
Surge capability (L-N)	1 kV
Nominal output voltage	27…40 V
U-OUT (working voltage)	60 V
Nominal output current	500 / 700 mA
Output current tolerance	±10 %
Output ripple current (100 Hz)	< 5 %
Output PSTLM	≤1
Output SVM	≤0.4
Nominal output power	13.5…28 W
Maximum output power	28 W
Galvanic isolation primary/secondary	SELV
Current set	DipSwitch
Default output current	700 mA

1) Permitted voltage range

2) Full load, 230V, 50 Hz

3) Full load at 230 V/Minimum load at 230 V

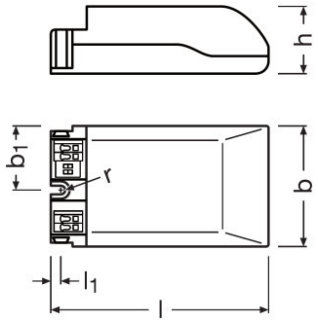
4) at 230 V, 50 Hz

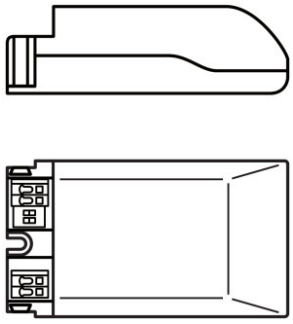
5) Maximum

6) t_{width} = 100 µs (measured at 50 % I_{peak})

© 2024, Inventronics GmbH. All rights reserved. Inventronics is a licensee of the OSRAM brand. OSRAM is a trademark of ams OSRAM.

Dimensions & weight





Product weight	109.00 g
Cable cross-section, input side	0.5…1.5 mm²
Cable cross-section, output side	0.5…1.5 mm²
Wire preparation length, input side	7…8 mm
Wire preparation length, output side	7…8 mm
Length	95.0 mm
Width	53.0 mm
Height	30.0 mm

Colors & materials

Casing material	Plastic

Temperatures & operating conditions

Ambient temperature range	-20…+50 °C
Maximum temperature at tc test point	75 °C [1)]
Max.housing temperature in case of fault	110 °C
Temperature range at storage	-40…+85 °C
Permitted rel. humidity during operation	5…85 % [2)]

[1)] Maximum at the Tc-point

[2)] Maximum 56 days/year at 85 %

Lifespan

ECG lifetime	35000 / 50000 h [1)]

[1)] At T_{case} = 75°C at T_c point / 10% failure rate / At T_{case} = 65°C at T_c point / 10% failure rate

Capabilities

Dimmable	Yes
Dimming interface	Phase Cut [1)]

© 2024, Inventronics GmbH. All rights reserved. Inventronics is a licensee of the OSRAM brand. OSRAM is a trademark of ams OSRAM.

Dimming range	5...100 %
Dimming method	Amplitude Modulation
Overheating protection	Automatic reversible
Overload protection	Automatic reversible
Short-circuit protection	Automatic reversible
No-load proof	Yes
Intended for no-load operation	No
Max. cable length to lamp/LED module	2.0 m [2)]
Suitable for fixtures with prot. class	I / II
Type of connection, input side	Push terminal
Type of connection, output side	Push terminal
Suitable for through-wiring	No
Control interface	-
Detection angle (Light sensor)	-
Detection angle (PIR)	-
Number of channels	1

[1)] Leading edge / Trailing edge

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

Certificates & standards

Approval marks – approval	CE
Standards	Acc. to IEC 61347-1/Acc. to IEC 61347-2-13/Acc. to IEC 62384/Acc. to IEC 61000-3-2/Acc. to IEC 6100-4-5/Acc. to IEC 61547
Protection class	I,II
Type of protection	IP20

Logistical data

Commodity code	85044083900

Environmental information

Information according Art. 33 of EU Regulation (EC) 1907/2006 (REACh)	
Date of Declaration	23-08-2023
Primary Article Identifier	4052899617308
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	9bb8ced1-6cd2-4aca-bb2e-b4da1b28f39f

© 2024, Inventronics GmbH. All rights reserved. Inventronics is a licensee of the OSRAM brand. OSRAM is a trademark of ams OSRAM.

Download Data

	File
	User instruction OPTOTRONIC LED Power Supply
	Addon Technical Information OT FIT 30 PC CS DL 181120
	Certificates OT FIT 30 CS PC NSW28276 110221
	Certificates OT FIT 30 CS PC CCC 2020171002003110 110221
	Certificates OT FIT 30 CS PC CCC 2020171002003109 110221
	Certificates OT FIT 30 CS PC ENEC 35 112936 110221
	Declarations of conformity OT FIT CS PC CE 3789414 170522
	Declarations of conformity OT FIT CS PC UK DoC 4290101 170522
	CAD data OT FIT 30 CS PC STEP 170423

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.

Logistical Data

Product code	Product description	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Volume	Gross weight
4052899617308	OT FIT 30/220...240/700 CS PC	Shipping carton box 20	284 mm x 207 mm x 100 mm	5.88 dm^3	2458.00 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.

© 2024, Inventronics GmbH. All rights reserved. Inventronics is a licensee of the OSRAM brand. OSRAM is a trademark of ams OSRAM.

Accessories Optional

Product description	Accessory name	Accessory code
OT FIT 30/220...240/700 CS PC	OT CABLE CLAMP E-STYLE	4052899167896

Disclaimer

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

© 2024, Inventronics GmbH. All rights reserved. Inventronics is a licensee of the OSRAM brand. OSRAM is a trademark of ams OSRAM.