

## OT FIT 55/220...240/1A0 CS L G2

OPTOTRONIC FIT CS L G2 | Linear / Area Constant Current – Non dimmable



### Product family features

- Line frequency: 0 Hz | 50 Hz | 60 Hz
- Versatile scope of application due to output power range of up to 75 W
- Supply voltage: 220...240 V
- Available with output current range: up to 1,400 mA
- SELV system

### Product family benefits

- Flexible current setting (DIPswitch – 4 currents)
- Lifetime: up to 100,000 h (temperature at  $T_c = 65\text{ °C}$ , max. 10 % failure rate)
- High efficiency
- High quality of light thanks to low output ripple current
- Fulfill safety requirement due to overload, overtemperature, Hot Plug protection

## Areas of application

- Linear lighting for office, education, industry, storage areas and retail
- Installation in emergency lighting systems according to IEC 61347-2-13, appendix J
- Suitable for luminaires of protection class I

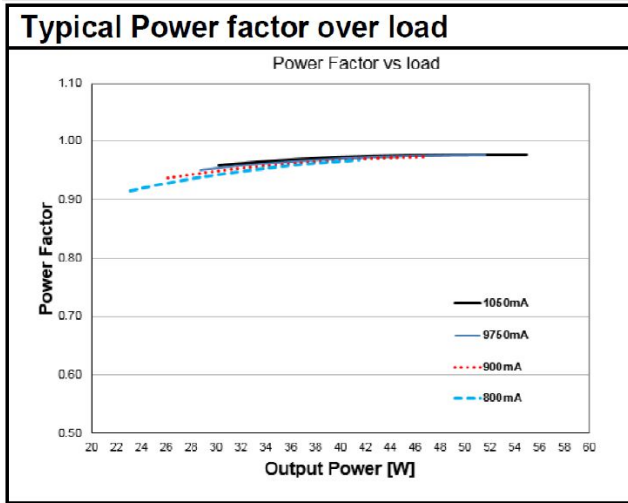
## Technical data

### Electrical data

Nominal input voltage	220...240 V
Mains frequency	0/50/60 Hz
Input voltage AC	198...264 V <sup>1)</sup>
Input voltage DC	176...276 V
Current set	DipSwitch
Total harmonic distortion	< 10 %
Power factor $\lambda$	0.87C...0.98
Device power loss	7.0 W
Protective conductor current	2.0 mA
Inrush current	20 A
Max. ECG no. on circuit breaker 10 A (B)	16
Max. ECG no. on circuit breaker 16 A (B)	25
Surge capability (L/N-Ground)	2 kV
Surge capability (L-N)	1 kV
Nominal output voltage	27...51 V
U-OUT (working voltage)	< 60 V
Nominal output current	800 mA / 900 mA / 975 mA / 1050 mA
Default output current	1000 mA
Output current tolerance	$\pm 7.5$ %
Output ripple current (100 Hz)	< 5 %
Output PSTLM	$\leq 1$
Output SVM	$\leq 0.4$
Nominal output power	21.6...53.6 W
Galvanic isolation	SELV

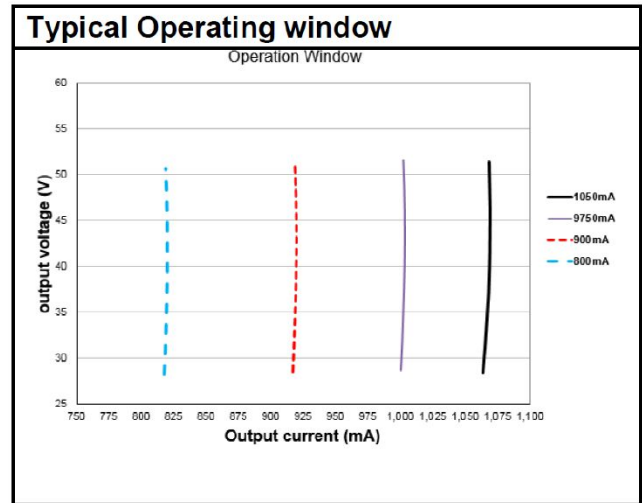
1) Permitted voltage range

## Typical Power Factor v Load



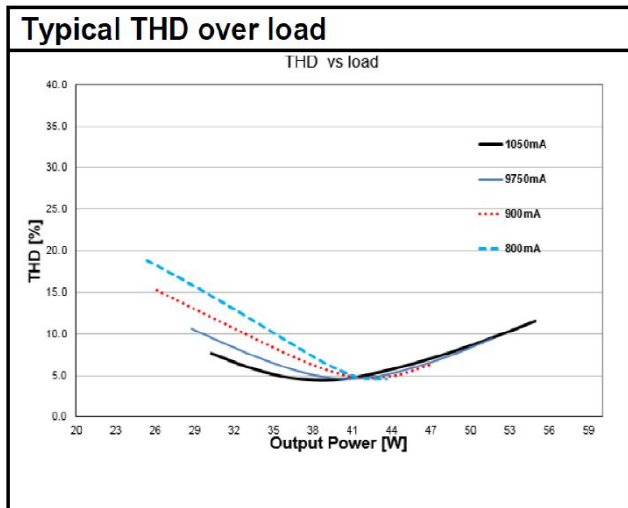
OT FIT 55/220-240/1A0 CS L G2 Typical Power Factor vs. Load

## Operating Window



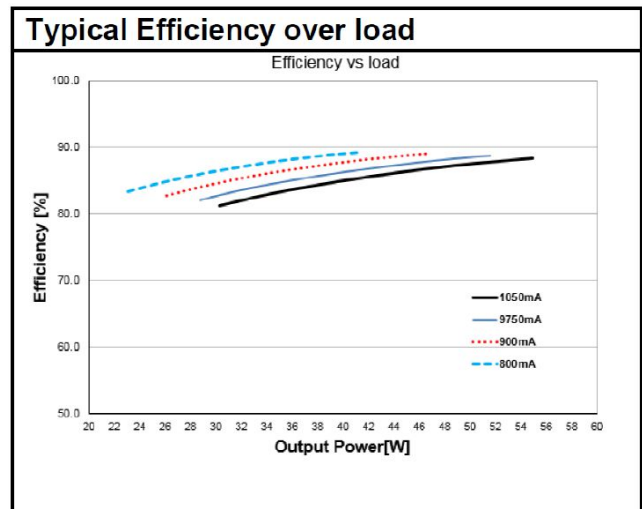
OT FIT 55/220-240/1A0 CS L G2 Operating Window

## Typical THD v Load



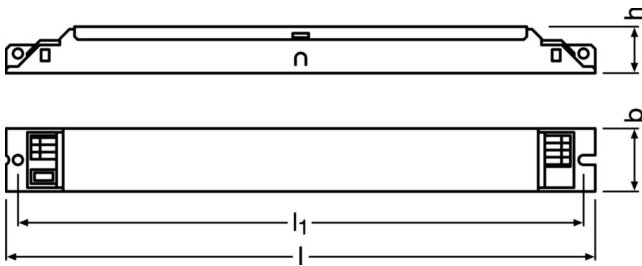
OT FIT 55/220-240/1A0 CS L G2 Typical THD Vs Load

## Typical Efficiency v Load 230 V 50 Hz



OT FIT 55/220-240/1A0 CS L G2 Typical Efficiency vs. Load (230 V / 50 Hz)

## Dimensions & weight



<b>Length</b>	280.0 mm
<b>Width</b>	30.0 mm
<b>Height</b>	21.0 mm
<b>Mounting hole spacing, length</b>	270.0 mm
<b>Mounting hole spacing, width</b>	not relevant mm
<b>Cable cross-section, input side</b>	0.5...1.5 mm <sup>2</sup>
<b>Cable cross-section, output side</b>	0.5...1.5 mm <sup>2</sup>
<b>Wire preparation length, input side</b>	8.5...9.5 mm
<b>Wire preparation length, output side</b>	8.5...9.5 mm
<b>Product weight</b>	217.00 g

## Colors & materials

<b>Casing material</b>	Metal
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## Temperatures & operating conditions

<b>Ambient temperature range</b>	-25...+50 °C
<b>Maximum temperature at tc test point</b>	80 °C
<b>Max.housing temperature in case of fault</b>	110 °C
<b>Temperature range at storage</b>	-25...85 °C
<b>Permitted rel. humidity during operation</b>	5...85 % <sup>1)</sup>

1) Maximum 56 days/year at 85 %

## Lifespan

<b>ECG lifetime</b>	50000 h / 100000 h <sup>1)</sup>
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1) At maximum  $T_c = 75^\circ\text{C}$  / 10% failure rate / At  $T_c = 65^\circ\text{C}$  / 10% failure rate

## Capabilities

<b>Programming interface</b>	Dipswitch
<b>Dimmable</b>	No
<b>Constant lumen function</b>	No
<b>Max. cable length to lamp/LED module</b>	2.0 m <sup>1)</sup>
<b>Suitable for fixtures with prot. class</b>	I
<b>Suitable for emergency lighting</b>	Yes
<b>Type of connection, input side</b>	Push terminal
<b>Type of connection, output side</b>	Push terminal
<b>Number of channels</b>	1
<b>Overheating protection</b>	Automatic reversible
<b>Overload protection</b>	Non-reversible
<b>Short-circuit protection</b>	Automatic reversible
<b>No-load proof</b>	Yes

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

## Programming

Programming device	DIPswitch
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## Certificates & standards

Approval marks – approval	CE / EL / ENEC 05 / EAC / CCC / RCM / BIS
Standards	Acc. to EN 61347-1 / Acc. to EN 61347-2-13 / Acc. to EN 62384 / Acc. to EN 61000-3-2 / Acc. to EN 61000-3-3 / Acc. to EN 61547
Type of protection	IP20
Protection class	1

## Logistical data

Commodity code	85044083900
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## Environmental information

Information according Art. 33 of EU Regulation (EC) 1907/2006 (REACH)	
Date of Declaration	22-03-2024
Primary Article Identifier	4052899522558
Declaration No. in SCIP database	In work

## Download Data

File		
Certificates	PDF	▶ INOTEC Certificate OT FIT 55/1A0 CS L G2
Certificates	PDF	▶ INOTEC Certificate OT FIT 55/1A0 CS L G2 appendix
Certificates	PDF	▶ OT EMC 40038482 290922
Certificates	PDF	▶ OT FIT 55 CS L G2 CCC 2023171002005165 071223
Certificates	PDF	▶ OT ENEC 40038447 260623
Certificates	PDF	▶ VDE ENEC Certificate 40046756
Declarations of conformity	PDF	▶ OT FIT CS L G2 UK DoC 4281119 150222
Declarations of conformity	PDF	▶ OT FIT CS L G2 CE 3666934 150222
Declarations of conformity	PDF	▶ 711957_Declaration of Conformity OT FIT CS L
User instruction	PDF	▶ OT FIT 35 55 75 220-240 CS L G2

## 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
4052899522558	OT FIT 55/220...240/1A0 CS L G2	Shipping carton box 20 Pieces	303 x 159 x 101 mm	4.87 dm <sup>3</sup>	4659.00 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

## Disclaimer

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