

OTi 90/220...240/1A0 D LT2 L

OPTOTRONIC Intelligent | – Non dimmable



Areas of application

- Installation in emergency lighting systems according to IEC 61347-2-13, appendix J
- Suitable for installation in emergency lighting systems according to EN 60598-2-22
- Suitable for use in luminaires with flexible current setting
- Suitable for luminaires of protection class I

Product family benefits

- Versatile window driver up to 90 W due to flexible output characteristic
- Very high efficiency
- Protection of the system thanks to thermal management and Smart Control

Product family features

- Supply voltage: 220...240 V
- Line frequency: 0 Hz | 50 Hz | 60 Hz
- Line voltage: 198...264 V
- Safety according to EN 61347-1, 61347-2-3, 61347-2-13, 62384
- Module operation according to EN 60929
- RI suppression according to EN 55015:2007+A1:2007/CDN
- Line harmonics according to EN 61000-3-2
- Immunity according to EN 61547
- Lifetime: up to 100,000 h (temperature at $T_c = 65^\circ\text{C}$, max. 10 % failure rate)

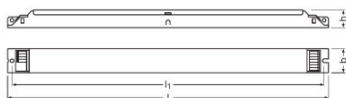
Technical data

Electrical data

Input voltage AC	198...264 V
Input voltage DC	176...276 V
Total harmonic distortion	< 10 %
Power factor λ	0.95
ECG efficiency	92 %
Device power loss	8.5 W
Protective conductor current	<2.0 mA
Inrush current	25 A ¹⁾
Max. ECG no. on circuit breaker 10 A (B)	8
Max. ECG no. on circuit breaker 16 A (B)	19
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	54...240 V
U-OUT (working voltage)	90 V
Nominal output current	250...1000 mA
Output current tolerance	±5 %
Output ripple current (100 Hz)	< 10 %
Nominal output power	90 W
Galvanic isolation	Non isolated

¹⁾ At 280 μ s

Dimensions & weight



Mounting hole spacing, length	270.0 mm
Cable cross-section, input side	0.5...1.5 mm ²
Cable cross-section, output side	0.5...1.5 mm ²

Product datasheet

Wire preparation length, input side	8.5...9.5 mm
Wire preparation length, output side	8.5...9.5 mm
Length	NaN mm
Width	NaN mm

Colors & materials

Casing material	Metal
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Temperatures & operating conditions

Ambient temperature range	-25...+50 °C
Maximum temperature at tc test point	75 °C
Max.housing temperature in case of fault	110 °C
Temperature range at storage	-40...85 °C
Permitted rel. humidity during operation	5...85 % ¹⁾

¹⁾ Maximum 56 days/year at 85 %

Lifespan

ECG lifetime	50000 / 100000 h ¹⁾
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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

Additional product data

Encapsulated	No
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Capabilities

Dimmable	No
Constant lumen function	No
Overheating protection	Automatic reversible
Overload protection	Automatic reversible
Short-circuit protection	Yes
No-load proof	Yes
Max. cable length to lamp/LED module	2.0 m
Suitable for fixtures with prot. class	I
Suitable for emergency lighting	Yes
Type of connection, output side	Push terminal

Certificates & standards

Approval marks – approval	ENEC 10 / VDE-EMC / EL / CE
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Product datasheet

Standards	Acc. to EN 55015; acc. to EN 55022; acc. to EN 61547; acc. to IEC 61000-3-2/EN 61000-3-2/Acc. to EN 61347-1/Acc. to EN 61347-2-13/Acc. to EN 61347-2-3/Acc. to EN 62384
Type of protection	IP20

Download Data

File	
	Product Datasheet 601164_data sheet OTi 90
	Brochures 539521_DALI standard and additional functions (GB)
	Certificates VDE EMC Certificate 40011668
	Certificates VDE ENEC Certificate 40038085
	Certificates 505891_CB Test Certificate
	Declarations of conformity 727247_EC OTi
	Declarations of conformity 544467_Declaration of conformity
	CAD data 3-dim 505465_CAD data OTi 6090
	CAD data PDF 505466_CAD data OTi 6090

Logistical Data

Product code	Product description	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Volume	Gross weight
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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.