Light is OSRAM



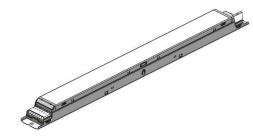
Product data sheet: OTi DALI 150/220-240/1A0 D NFC IND L

Constant current LED driver w NFC incl. OSRAM DALI features – non isolated Wide operating area up to 1000mA, 1...100% dimmable

Made for Industry applications

Very high robustness, reliability, operating area & energy saving potential, DALI dimmable & programmable, embedded corridor functionality and advanced TouchDIM with daylight harvesting, constant lumen output, enhanced options like Driver Guard / Soft Switch Off / Dim to Dark.

DALI & NFC (wireless) interface for fast programming. Automatic current set through the LEDset interface.



Benefits

Wide operating range: 250 – 1000 mA, 64 – 300 V
Wide ambient temperature range: -40...+65 °C
Programmable via DALI or NFC, LED current via LEDset
In-rush current limiter integrated
Extreme long lasting & high reliability (Industry application)
4kV surge capability (symmetric and asymmetric)
Possibility of Analysis Using Luminaire Data:
(Power, Energy, Operating Hours)

414 424

Housing material: metal, white painted

Suitable for emergency lighting units
Smart analogue dimming 1...100%
Compliant to DALI Ed. 2

Applications

Linear and Highbay industrial lighting

Trunking systems – Battens – Light Lines – Waterproof - Highbay

Approval marks & Symbols

CE, ENEC, VDE-EMC, RMC, CCC, In preparation, if not already printed on product label

Product Features

100W output current range 250 – 1000 mA
 Very wide ta range -40...+65 °C

- 100'000 h lifetime at $t_c = 75^{\circ}C$ - tc max = 85°C

Analogue dimming down to 1%
 Very low ripple ≤ 1%

Very high efficiency up to 95%
 Fully programmable, DALI/NFC

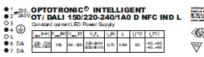
In-rush current limiter integrated
 4kV surge protection

Low stand-by consumption <0.2 W
 200'000 switching cycles

Suitable for emergency lighting
 8 years guarantee @ tc -10°C

Electrical Specifications

	Item	Value	Unit	Remarks
	Nominal voltage	220 – 240	TV	Remarks
INPUT	Nominal frequency	0/50/60	Hz	
	AC voltage range	198 – 264	V	AC or RAC
	DC voltage range	176 – 276	V	DC
	Maximum voltage	350	V _{AC}	2 h maximum, unit might not operate in this abnormal condition
	Nominal current	0.68	A	2 ii maximum, unit might not operate in this abnormal condition
	Total Harmonic Distortion (THD)	7	%	Typical value, full load
	Power factor	> 0.98	70	Full load, 220 – 240 V, 50 Hz / see graphs
	Efficiency	Up to 95	%	Full load, 220 – 240 V, 50 Hz / see graphs
=	Starting time	≤ 0.6	S	1 dii 10dd, 220 – 240 V, 30 Hz / 300 grapiis
	Stand-by power	0.16	W	Typical value, 230V, 50Hz
	Power loss	11	W	Maximum full load
	Protection class	11	VV	PE can be connected either to terminal or housing
	Inrush current	5	A pk	T _h = 900 µs
	Max. units per circuit breaker	B16: 32; B10: 18	Арк	T _h = 900 μs
	PE current	< 0.5	mA	Through PE
	Nominal voltage range	64 – 300	V	THOUGHTE
OUTPUT	Maximum voltage	< 310	V _{DC}	w/ no load
	Nominal current range	250 – 1000	mA	LEDset open: 125 mA; LEDset short: 250 mA
	Current accuracy	+/- 3	%	With LEDset: +/- 5%
	Current ripple	< 1	%	LF ripple <1%, HF ripple <4%
	Nominal power range	43 – 150	W	Li Tippie <170, Til Tippie <470
	Maximum power	150	W	
	DC Output current (EL)	15	%	Preset value, adjustable via software, at DC or RAC
DIM	Galvanic isolation	No	70	Non-isolated
	Dimming control	Yes		DALI and TouchDIM
	Dimming control Dimming range	1100	%	Complete analogue Dimming
	Dimming range Dimming standard	DALI-2	/0	Complete analogue birnining
	, and the second	-40+65	°C	250-700mA
ENVIRONMENT	Ambient temperature range t _a	-40+60		250-700mA >700mA
	Maximum case temperature t _c	85	°C	Measured on t _c point indicated of the product label.
	Max. case temp. in fault condition	110	°C	Wedsured on te point indicated of the product label.
	Storage temperature range	-25+85	°C	
	Relative humidity	5 85	%	Not condensing
	Surge transient protection	4 4	kV	L/N LN/PE acc. To. EN 61547 Clause 5.7
	Environmental rating	Indoor	N.V.	L/N LIN/F L acc. To. LIN 01347 Clause 3.7
	IP rating	IP 20	+	
	Mains switching cycles	> 200'000	+	
	Mains switching cycles	50'000	+	t _c = 85°C, 0.2% / 1`000 h failure rate, 24h ON
	Expected lifetime	100′000	hrs	$t_c = 65 \text{ C}, 0.2\% / 1000 \text{ Hailure rate, 24H ON}$ $t_c = 75^{\circ}\text{C}, 0.2\% / 1000 \text{ h failure rate, 24h ON}$
		100 000		$t_c = 75 \text{ G}, 0.2\% / 1 000 \text{ Hilling rate, 24H ON}$











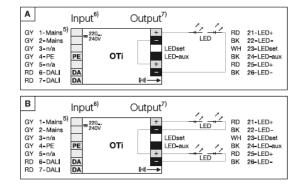
Wiring Diagram

Push in terminals Terminal: Max. cable length - system: Geometry (I x b x h): 425 x 30 x 21 mm

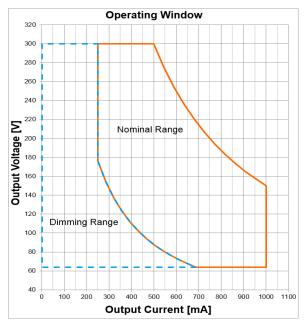
Weight: 306 g

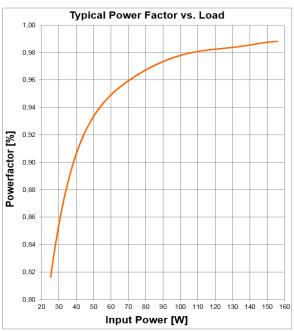
Wire preparation: Push in s:0.5-1.5

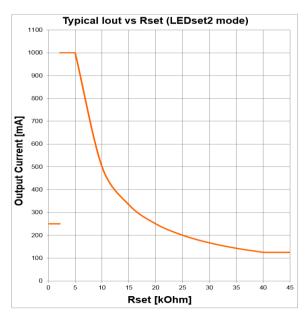
7-8 mm

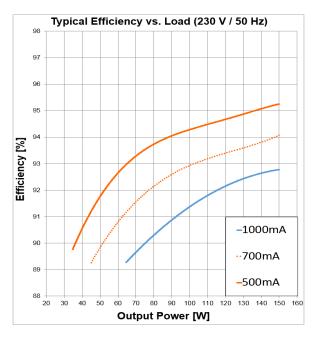


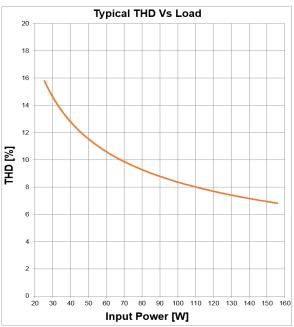
5.) Mains - 6.) Input - 7.) Output











Remarks

- Input overvoltage protection: mains up to 350 Vac, for two hours maximum, will not destroy both the unit and the load; shut down of the load might occur in this condition.
- Input surge protection: the unit is protected against surge up to 4kV between L-N (symmetric surge) and L/N-PE (asymmetric surge). During an asymmetric surge, the voltage between the LED outputs and PE is equal or lower than the applied surge voltage.
- Output short circuit / undervoltage protection: shut down of the load happens if Vout is out of the operating range.
- Output overload protection: the unit automatically reduces the output current to keep the output power below 100W.
- Output over voltage protection: shut down of the load might happen if Vout exceeds 300V
 - Step 1: output current reduction to decrease Vout;
 - Step 2: shut down of the load at longer or extreme overvoltage.
- No load operation: the unit automatically switches off, the maximum output voltage is <310V.
- Overtemperature protection: the unit is protected against temporary overheating by automatic reduction of the output current when tc > 85°C.
- Enhanced programmable options:
 - Driver Guard: when active, the unit limits the maximum temperature of the driver according the prestart derating range.
 - o Soft Switch Off: when active, at DALI switch-off the LED current goes smoothly to zero.
 - Dim to dark: when active, the minimum dimming current is the minimum physical one provided by the unit. Compliance with local regulations must be checked.
- Enhanced analyzing options:
 - Luminaire Data: Possibility of Analysis Using Luminaire Data (Power, Energy, Operating Hours) Suitable for emergency lighting units
- Switchover time: lower than 0.5 s, from AC to DC mains and viceversa.
- Output power hold time: > 4 ms, in case of mains dips.
- Emergency lighting: this LED power supply is suitable for emergency lighting fixtures acc. to EN 60598-2-22;
 according to IEC 61347-2-13 Annex J.
- Emergency Escape Lighting: this LED power supply is suitable for emergency escape lighting systems acc. to EN 50172.

Standards

IEC 61347-1 IEC 61347-2-13 IEC 62384 IEC 61000-3-2 IEC 61000-3-3

IEC 61547

Product name	EAN10	EAN40	Pieces /
OTi DALI 150/220-240/1A0 D LT2 NFC IND L	4052899559530	4052899559547	20

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