Light is OSRAM



Product data sheet: OTi DALI 35/220-240/400 D LT2 L

Constant current LED driver incl. OSRAM DALI features – non isolated Wide operating area up to 400mA, 1...100% dimmable

Flexible, reliable solution for energy saving lighting: DALI dimmable & programmable, embedded corridor functionality and advanced TouchDIM with daylight harvesting, constant lumen output.

Automatic current set through the LEDSet interface.

Benefits

Wide operating range: 75 – 400mA
Adjustable current via DALI programmable or LEDset2
Long lasting and high reliability
Small, slim white metal housing 30 x 21 mm
Suitable for emergency lighting units
Smart analogue dimming 1...100%
Following DALI Ed. 2

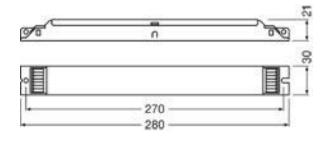
Applications

Linear and area lighting Office – industrial – shop

Applications

CE, ENEC, VDE-EMC, RMC, V, EL

In preparation, if not already printed on the label



Housing material: metal, white painted

Product Features

- Output current range 75 400mA
- Fully digital programmable
- Analogue dimming down to 1%
- Very high efficiency up to 92%
- Low stand-by consumption <0.25 W
- Output power up to 38 W
- Suitable for emergency lighting

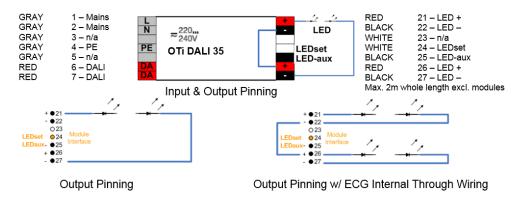
- Very wide operating window
- Overload & temperature protection
- Very low ripple ≤1%
- 100'000 h lifetime at t_c = 65°C
- t_c max = 75 °C
- Wide t_a range -25 +60 °C
- 5 years guarantee

Electrical Specifications

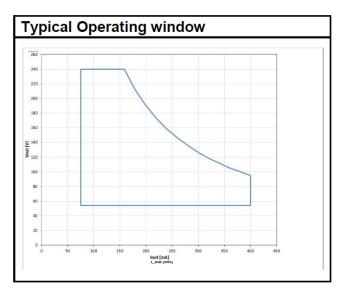
	Item	Value	Unit	Remarks
INPUT	Nominal voltage	220 – 240	T V	
	Nominal frequency	0 / 50 / 60	Hz	
	AC voltage range	198 – 264	V	AC or RAC
	DC voltage range	176 – 276	V	DC
	Maximum voltage	350	Vac	2 h maximum, unit might not operate in this abnormal condition
	Nominal current	0.19	Α	
	Total Harmonic Distortion (THD)	< 10	%	Full load
	Power factor	> 0.95		Full load, 220 – 240 V, 50 Hz / see graphs
	Efficiency	Up to 92	%	Full load, 220 – 240 V, 50 Hz / see graphs
	Starting time	≤ 0.6	S	
	Power losses	4	W	Maximum, full load
	Stand-by power	< 0.25	W	
	Protection class	I		PE can be connected either to terminal or housing
	Inrush current	17	A pk	th = 170 μs
	Max. units per circuit breaker	B16: 28 B10: 17		
	PE current	< 0.5	mA	Through PE
	Nominal voltage range	54 – 240	V	
	Maximum voltage	< 250	Vdc	w/ Open Circuit
OUTPUT	Nominal current range	75 – 400	mA	LEDset open: 35mA; LEDset short: 75mA
	Current accuracy	+/- 3	%	With LEDset2 +/-5%
	Current ripple	< 1	%	100 Hz., low freq. ripple is negligible
0	Nominal power range	4.0 – 38	W	
-	Maximum power	38	W	
	DC Output current (EL)	15	%	Preset value, adjustable via software, at DC or RAC
	Galvanic isolation	no		Non-isolated
	Dimming control	yes		DALI and TouchDIM
DIM	Dimming range	1100	%	Complete analogue Dimming
a	Dimming Standard	Acc. DALI Ed.2		
	Ambient temperature range t _a	-25+60	°C	
	Maximum case temperature t _c	75	°C	Measured on t _c point indicated of the product label
╞	Max. case temp. in fault condition	110	°C	
Ѿ	Storage temperature range	-25+85	°C	
ENVIRONMENT	Relative humidity	5 85	%	Not condensing
	Surge transient protection	1 2	kV	L/N LN/PE acc to. EN 61547 Clause 5.7
	Environmental rating	Indoor		
	IP rating	IP 20		
	Mains switching cycles	> 100'000		
	Expected lifetime	50'000 100'000	h	t_c = 75°C, 0.2% / 1'000 h failure rate, 24h ON t_c = 65°C, 0.1% / 1'000 h failure rate, 24h ON

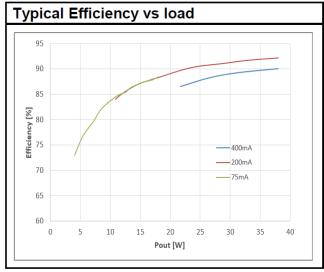
Protections

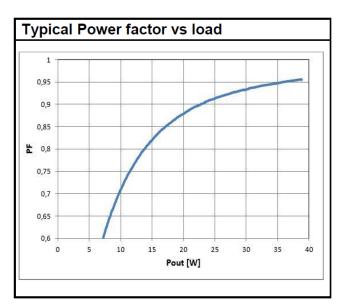
Overtemperature, Overload, No load, Short-circuit, Input overvoltage, Output overvoltage, Output undervoltage See remarks on page 4

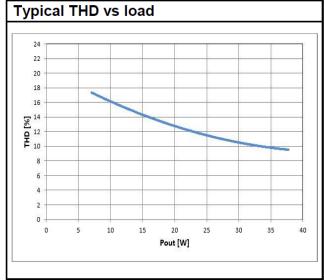


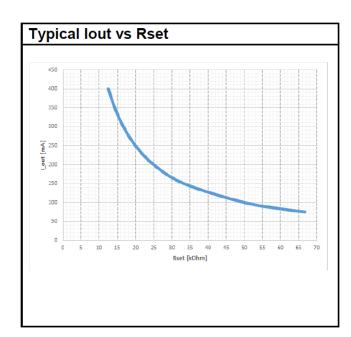
Version: FINAL - August 2017











Rset formula and standard lout values										
$I_{\text{OUT}[A]} = \frac{5V}{R_{\text{set}[\Omega]}} \times 1000$										
Iout [mA]	Iout [mA]	Rset [kOhm]								
nominal	set, +/-5%	Kset [konin]								
75	80	62 (E24)								
, 3	77	64.9 (E48)								
125	128	39 (E24)								
123	124	40.2 (E48)								
250	250	20 (E24)								
230	255	19.6 (E48)								
400	385	13 (E24)								
400	394	12.7 (E48)								
Refer to the LEDset2 application note and/or instruction										

Refer to the LEDset2 application note and/or instruction sheet for further details

Remarks

- Input over voltage protection: mains up to 350 Vac, for two hours maximum, will not destroy both the unit and the load; shut down of load might occur in this condition.
- Output short circuit / undervoltage protection: shut down of load happens if Vout is out of operating range
- Output overload protection: the unit automatically reduces the output current to keep the output power below 38W.
- Output over voltage protection: shut down of load happens if Vout exceeds 240V
 - Step 1: output current reduction to decrease Vout
 - Step 2: shut down of load at longer or extreme overvoltage
- No load operation: the unit automatically switches off.
- Over temperature protection: the unit is protected against temporary overheating by automatic reduction of the output current when tc > 75°C
- Switchover time: lower than 0.5 s, both AC and DC mains.
- 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 Ordering information

EN 61347-1
EN 61347-2-13
EN 55015
EN 61547
EN 61000-3-2
EN 62384
EN 62386

Product name	Туре	EAN10	EAN40	NAED	Pieces / box
OTI DALI 35/220-240/400 D LT2 L	AM0013901OL	4052899494220	4052899494237	n.a.	20

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