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. Following DALI Ed. 2

Applications

Linear and area lighting. Office – industrial – shop

360 350

Housing material: metal, white painted

Approval marks

CE, ENEC, VDE, C-Tick, EMC, \(\frac{\psi_y}{y}\), \(\begin{align*}\sum_{\text{supp}}\)

In preparation, if not already printed on product label

Product Features

- Output current range 75 400 mA
- Fully digitally programmable
- Smart 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

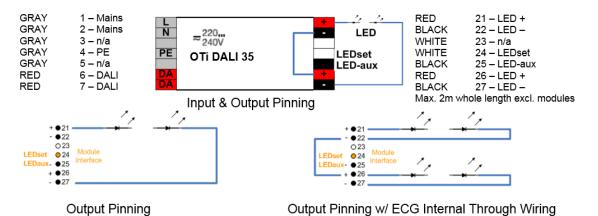
- Very wide operating window
- Overload & -temperature protection
- Very low ripple ≤ 4%
- 100'000 h lifetime at $t_c = 65^{\circ}$ C
- $T_c max = 75 °C$
- Wide t_a range -25...+60 °C
- 5 years guarantee

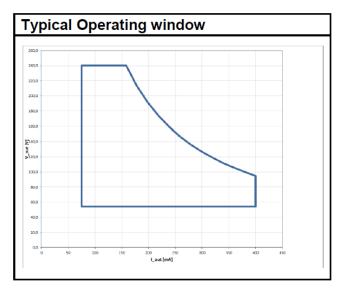
Electrical Specifications

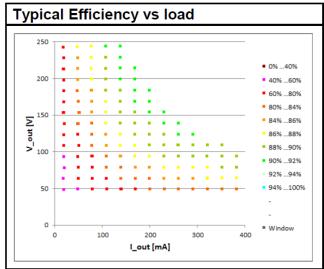
	NI 1 137 K		3	Remarks
	Nominal Voltage	220 - 240	V	
	Nominal frequency	0 / 50 / 60	Hz	
	AC voltage range	198 – 264	V	AC or RAC
	DC voltage range	176 - 276	V	DC
	Maximum voltage	350	V_{AC}	2 h maximum, unit might not operate in this abnormal condition
1	Nominal current	0.19	Α	
] ــ ا	Total Harmonic Distortion (THD)	< 10	%	Full load, 220 - 240 V, 50 Hz / see graphs
Input	Power factor	> 0.95		Full load, 220 - 240 V, 50 Hz / see graphs
<u>u</u>	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
[Standby Power	< 0.25	W	
	Protection class			PE can be connected either to terminal or housing
l [Inrush current	17	A pk	Th = 170 μs
	Max. units per circuit breaker	B16: 28 B10: 17		Grid impendance 800mOhm
	Nominal voltage range	54 - 240	V	
	Maximum voltage	< 250	Vdc	w/ Open Circuit
	Nominal current range	75 - 400	mA	LEDset open: 35mA; LEDset short: 75 mA
] . [Current accurancy	+/- 5	%	With LEdset2 +/- 7%
l n [Current ripple	< 4	%	100 Hz, low freq. ripple is negligible
Output	Nominal power range	4.0 - 38	W	
ō	Maximum power	38	W	
	DC Output current (EL)	15	%	Preset value, adjustable via software, at DC or RAC
	Galvanic isolation	no		Non-isolated
l L	Dimming control	yes		DALI and TouchDIM
Dim	Dimming range	1100		
Δ	Dimming standard	Acc. DALI 2		
l [Ambient temperature range t _a	-25+60	°C	
	Maximum case temperature t _c	75	°C	Measured on $t_{\mbox{\tiny c}}$ point indicated of the product label
Ħ	Max. case temp. in fault condition	110	°C	
اقــ [Storage temperature range	-25+85	°C	
lu [Relative humidity	585	%	Not condensing
Environment	Surge transient protection	1/2	kV	L/N /LN/PE acc to EN 61547 Clause 5.7
į į	Environmental rating	Indoor		
En	IP rating	IP 20		
- [Mains switching cycles	> 100'000		
	Expected lifetime	50`000 70`000	hrs	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

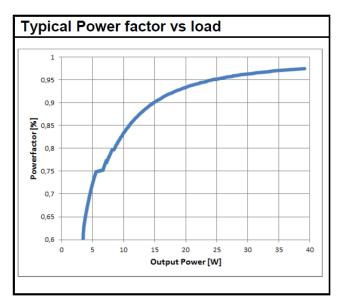
Protections

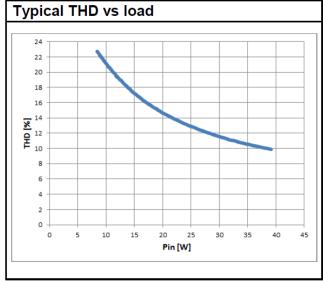
Overtemperature, Overload, No load, Short-circuit, Input overvoltage, Output overvoltage, Output undervoltage See remarks on page 4

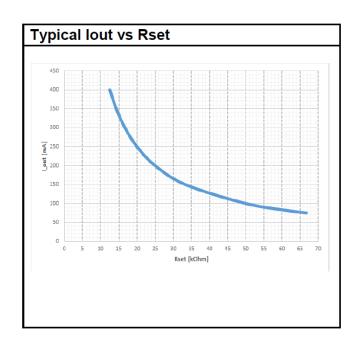












Rset formula and standard lout values $I_{\text{OUT}[A]} = \frac{5V}{R_{\text{set}[\Omega]}} \times 1000$

Iout [mA]	Iout [mA]	Rset [kOhm]		
nominal	set, +/-5%	Kstt [KOIIII]		
75	80	62 (E24)		
73	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 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 V_out 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 V_out exceeds 240V
 - Step 1: output current reduction to decrease V_out
 - 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	Product name	Туре	EAN10	EAN40	NAED	Pieces /
EN 61347-2-13	OTi DALI 35/220-240/400 LT2 L	AB3307800DG	4052899957053	4052899957121	n/a	20
EN 55015						
EN 61547						
EN 61000-3-2						
EN 62384						
EN 62386						

OSRAM GmbH

Head Office:

Marcel-Breuer-Strasse 6 80807 Munich, Germany Phone +49 89 6213-0 www.osram.com

