Light is OSRAM



Product data sheet: OTi DALI 60/220-240/550 D LT2 L

Constant current LED driver incl. OSRAM DALI features – non isolated Wide operating area up to 550mA, 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: 125 – 550mA
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

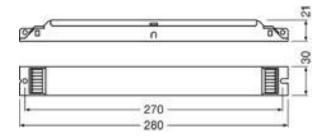
Applications

Linear and area lighting. Office – industrial – shop

Applications

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

In preparation, if not already printed on the label



Housing material: metal, white painted

Product Features

- Output current range 125 550mA
- Fully digital programmable
- Analogue dimming down to 1%
- Very high efficiency up to 93%
- Low stand-by consumption <0.25 W
- Output power up to 60 W
- Suitable for emergency lighting

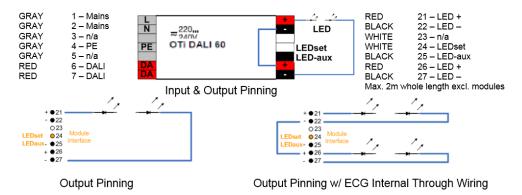
- Very wide operating window
- Overload & temperature protection
- Very low ripple ≤1%
- 100'000 h lifetime at t_c = 65°C
- t_c max = 75 °C
- Wide t_a range -25 +60 °C
- 5 years guarantee

Electrical Specifications

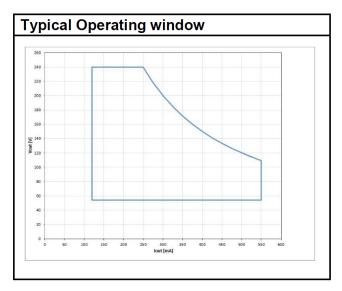
	Item	Value	Unit	Remarks
	Nominal voltage	220 – 240	V	
	Nominal frequency	0 / 50 / 60	Hz	
	AC voltage range	198 – 264	V	AC or RAC
	DC voltage range	176 – 276	V	DC
	Maximum voltage	350	Vac	2 h maximum, unit might not operate in this abnormal condition
	Nominal current	0.30	Α	
INPUT	Total Harmonic Distortion (THD)	< 10	%	Full load
	Power factor	> 0.95		Full load, 220 – 240 V, 50 Hz / see graphs
물	Efficiency	Up to 93	%	Full load, 220 – 240 V, 50 Hz / see graphs
_	Starting time	≤ 0.6	S	
	Power losses	5	W	Maximum, full load
	Stand-by power	< 0.25	W	
	Protection class			PE can be connected either to terminal or housing
	Inrush current	25	A pk	th = 280 μs
	Max. units per circuit breaker	B16: 24 B10: 13		
	PE current	< 0.5	mA	Through PE
OUTPUT	Nominal voltage range	54 – 240	V	
	Maximum voltage	< 250	Vdc	w/ Open Circuit
	Nominal current range	120 – 550	mA	LEDset open: 60mA; LEDset short: 120mA
	Current accuracy	+/- 3	%	With LEDset2 +/-5%
⊭	Current ripple	< 1	%	100 Hz, low freq. ripple is negligible
B	Nominal power range	6.4 – 60	W	
	Maximum power	60	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
ΔM	Dimming range	1100	%	Complete analogue Dimming
Δ	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
۱۶	Max. case temp. in fault condition	110	°C	
Į Į	Storage temperature range	-25+85	°C	
I≥	Relative humidity	5 85	%	Not condensing
ENVIRONMENT	Surge transient protection	1 2	kV	L/N LN/PE acc to. EN 61547 Clause 5.7
	Environmental rating	Indoor		
≩	IP rating	IP 20		
Ш	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

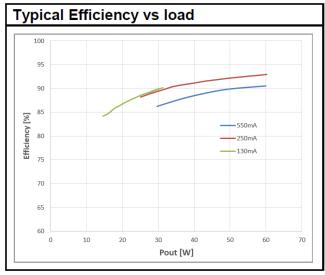
Protections

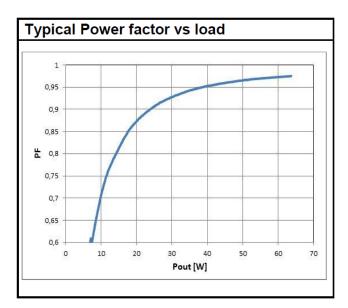
Overtemperature, Overload, No load, Short-circuit, Input overvoltage, Output overvoltage, Output undervoltage See remarks on page 4

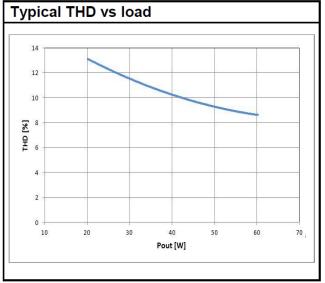


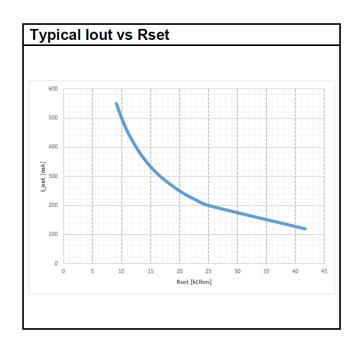
Version: FINAL - August 2017











Rset formula and standard lout values							
$I_{\text{OUT}[A]} = \frac{5V}{R_{\text{set}[\Omega]}} \times 1000$							
Iout [mA]	Iout [mA] set, +/-5%	Rset [kOhm]					
120	 121	(E24) 41.2 (E48)					
250	250 250	20 (E24) 20.0 (E48)					
350	333 350	15 (E24) 14.3 (E48)					
550	549 550	9.1 (E24) 9.09 (E48)					

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

Remarks

EN 61347-1

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

- 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 60W.
- 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

Product name	Туре	EAN10	EAN40	NAED	Pieces /
OTI DALI 60/220-240/550 D LT2 L	AM0013801OL	4052899494206	4052899494213	n.a.	20

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Created on: 21.11.2016

