# **Light is OSRAM**



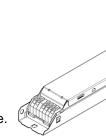
## OTi DALI 60/220-240/550 D LT2 L

Constant current LED driver incl. OSRAM DALI features – non isolated

Wide operating area up to 550mA, 1...100% dimmable

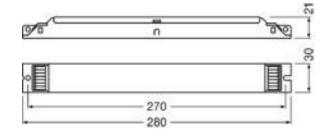
Flexible, reliable solution for energy saving lighting: DALI dimmable & programmable, embedded corridor functionality and advanced TouchDIM with daylight harvesting, constant lumen output.

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, W, 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</li>
- 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<sub>c</sub> = 65°C
- t<sub>c</sub> max = 75 °C
- Wide t<sub>a</sub> range -25 +60 °C
- 5 years guarantee

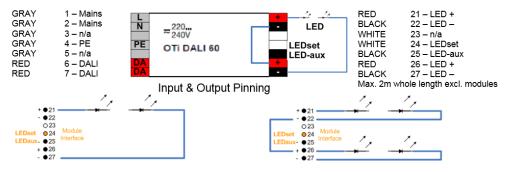
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# **Electrical Specifications**

	Item	Value	Unit	Remarks
INPUT	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	
	Total Harmonic Distortion (THD)	< 10	%	Full load
	Power factor	> 0.95		Full load, 220 – 240 V, 50 Hz / see graphs
	Efficiency	Up to 93	%	Full load, 220 – 240 V, 50 Hz / see graphs
Z	Starting time	≤ 0.6	S	
	Power losses	5	W	Maximum, full load
	Stand-by power	< 0.25	W	,
	Protection class	ı		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
	Nominal voltage range	54 – 240	V	<u> </u>
	Maximum voltage	< 250	Vdc	w/ Open Circuit
_	Nominal current range	120 – 550	mA	LEDset open: 60mA; LEDset short: 120mA Minimum current: 1.5mA
OUTPUT	Current accuracy	+/- 3	%	With LEDset2 +/-5%
	Current ripple	< 1	%	100 Hz, low freq. ripple is negligible
ō	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
Dimming	Dimming range	1100	%	Complete analogue Dimming > 150mA: 1% Dimming; < 150mA: minimum current 1.5mA
ق	Dimming Standard	Acc. DALI Ed.2	2	
	Ambient temperature range t <sub>a</sub>	-25+60	°C	
	Maximum case temperature t <sub>c</sub>	75	°C	Measured on t <sub>c</sub> point indicated of the product label
⊨	Max. case temp. in fault condition	110	°C	
囼	Storage temperature range	-25+85	°C	
₹	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		
	Mains switching cycles	> 100'000		7500 0 00/ / 4/000 h feilings at 1 04/ 01/
	Expected lifetime	50'000 100'000	h	$t_{\rm c}$ = 75°C, 0.2% / 1'000 h failure rate, 24h ON $t_{\rm c}$ = 65°C, 0.1% / 1'000 h failure rate, 24h ON

#### **Protections**

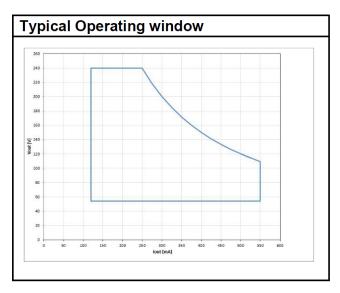
Overtemperature, Overload, No load, Short-circuit, Input overvoltage, Output overvoltage, Output undervoltage See remarks on page 4

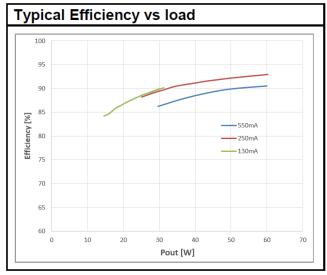


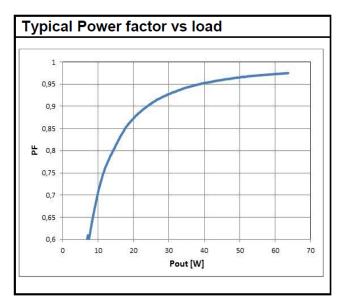
Output Pinning

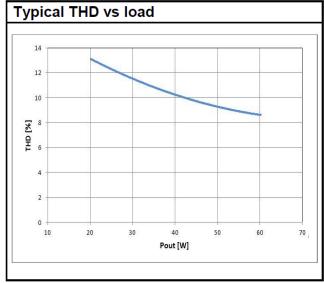
Output Pinning w/ ECG Internal Through Wiring

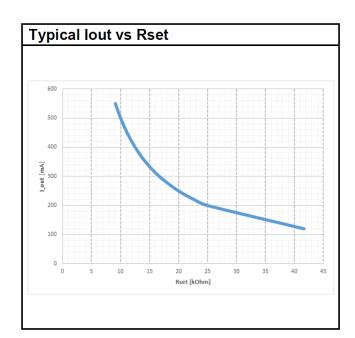
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Rset formula and standard lout values										
$I_{\text{OUT}[A]} = \frac{5V}{R_{\text{set}[\Omega]}} \times 1000$										
Iout [mA] nominal	Iout [mA] set, +/-5%	Rset [kOhm]								
120	 121	(E24) 41.2 (E48)								
250	250 250	20 (E24) 20.0 (E48)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

- 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 60W.
- 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 60/220-240/550 D LT2 L	AM0013801OL	4052899494206	4052899494213	n.a.	20
EN 55015						
EN 61547						
EN 61000-3-2						
EN 62384						
EN 62386						

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