

Light is OSRAM

OSRAM

OTi DALI 35/220-240/700 LT2 L G2

Constant current LED driver incl. OSRAM DALI features – SELV

Wide operating area up to 700mA, 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

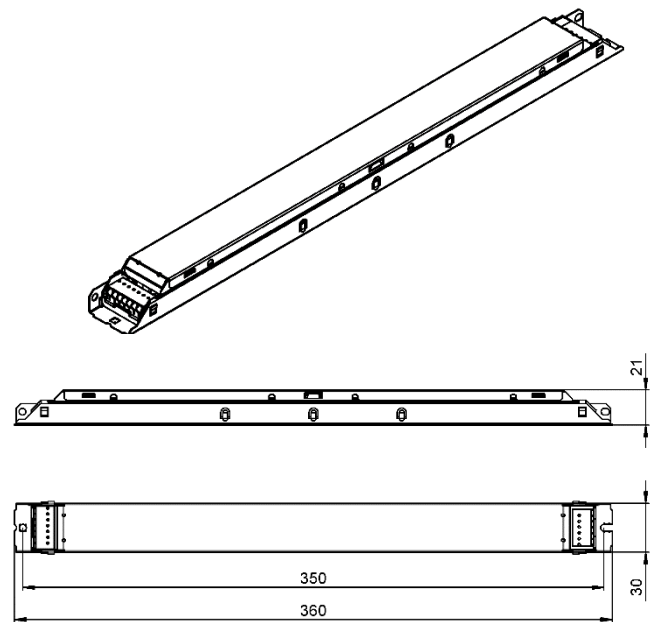
Wide operating range: 200 – 700mA
Adjustable current via DALI programmable or LEDset2
Long lasting and high reliability
Small, slim white metal housing 30 x 21 mm
Suitable for emergency lighting units
Smart analogue dimming 1...100%
DALI-2 certified

Applications

Linear and area lighting
Office – industrial – shop

ApplicationsCE, VDE-ENEC, VDE-EMC, RCM, , EL

In preparation, if not already printed on the label



Housing material: metal, white painted

Product Features

- Output current range 200 – 700mA
- Fully digital programmable
- Analogue dimming down to 1%
- Very high efficiency up to 90%
- Low stand-by consumption <0.15 W
- Output power up to 37 W
- Suitable for emergency lighting
- OSRAM SELV technology
- Overload & temperature protection
- Very low ripple $\leq 1\%$
- 100'000 h lifetime at $t_c = 65^\circ\text{C}$
- $t_c \text{ max} = 75^\circ\text{C}$
- Wide t_a range $-25 - +60^\circ\text{C}$
- 5 years guarantee

Electrical Specifications

	Item	Value	Unit	Remarks
INPUT	Nominal voltage	220 – 240	V	
	Nominal frequency	0 / 50 / 60	Hz	
	AC voltage range	198 – 264	V	
	DC voltage range	176 – 276	V	DC or RAC
	Maximum voltage	350	Vac	2 h maximum, unit might not operate in this abnormal condition
	Nominal current	0.18	A	
	Total Harmonic Distortion (THD)	< 15	%	Full load
	Power factor	> 0.95		Full load, 220 – 240 V, 50 Hz / see graphs
	Efficiency	Up to 90	%	Full load, 220 – 240 V, 50 Hz / see graphs
	Starting time	≤ 0.9	s	
	Power losses	4	W	Maximum, full load
	Stand-by power	< 0.15	W	
	Protection class	I		PE can be connected either to terminal or housing
	Inrush current	20	A pk	th = 200 µs
	Max. units per circuit breaker	B16: 24 B10: 14		
OUTPUT	Protective conductor current	< 0.5	mA	Through PE
	Nominal voltage range	15 – 54	V	
	Maximum voltage	< 60	Vdc	w/ Open Circuit
	Nominal current range	200 – 700	mA	LEDset open: 100mA; LEDset short: 700mA
	Current accuracy	+/- 3	%	with DALI; with LEDset2 +/-5%
	Current ripple	< 1	%	100 Hz., low freq. ripple is negligible
	Nominal power range	4.0 – 37	W	
	Maximum power	37	W	
	Emergency output factor (EL)	15	%	Preset value, adjustable via software, at DC or RAC
	Galvanic isolation	YES		SELV
Dimming	Dimming control	yes		DALI-2 and TouchDIM
	Dimming range	1...100	%	Complete analogue Dimming
	Dimming Standard	DALI-2		
ENVIRONMENT	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	
	Storage temperature range	-25 ... +85	°C	
	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	> 150'000		
	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

Wiring Diagram

Terminal:

Max. cable length - system:

Geometry (l x b x h):

Push in terminals

2 m

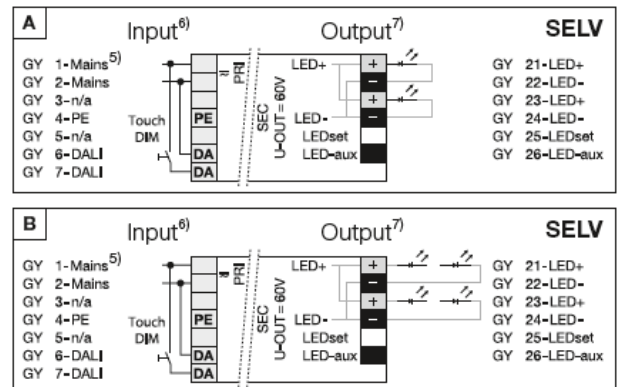
360 x 30 x 21 mm

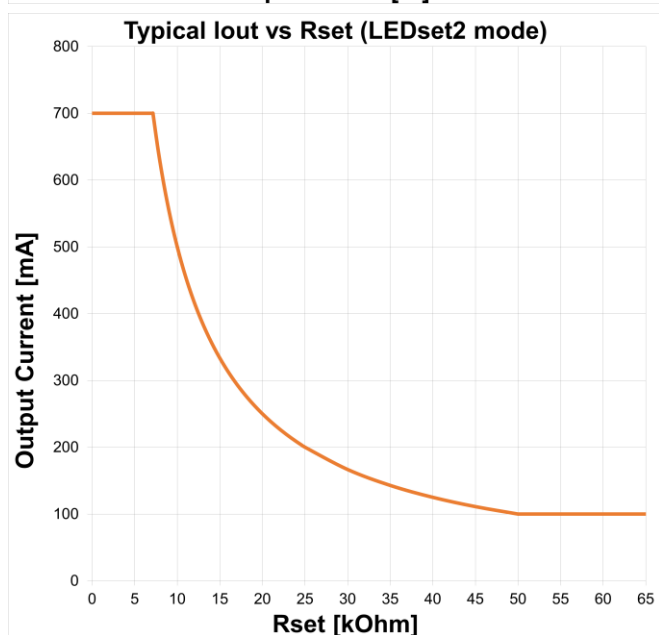
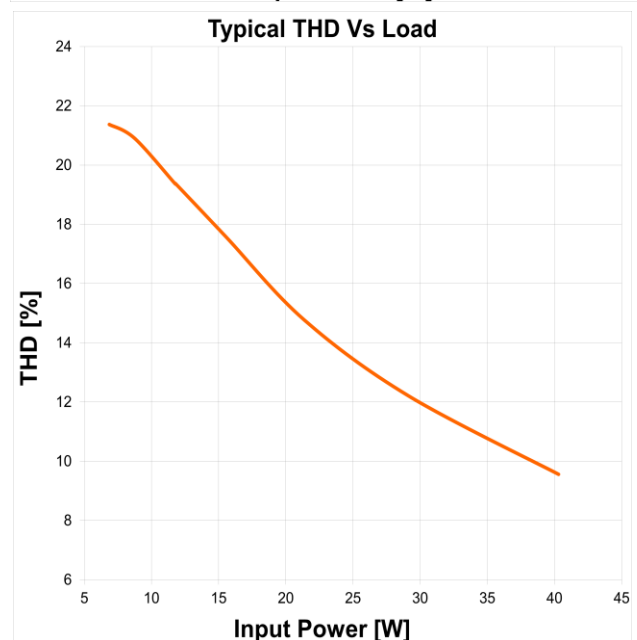
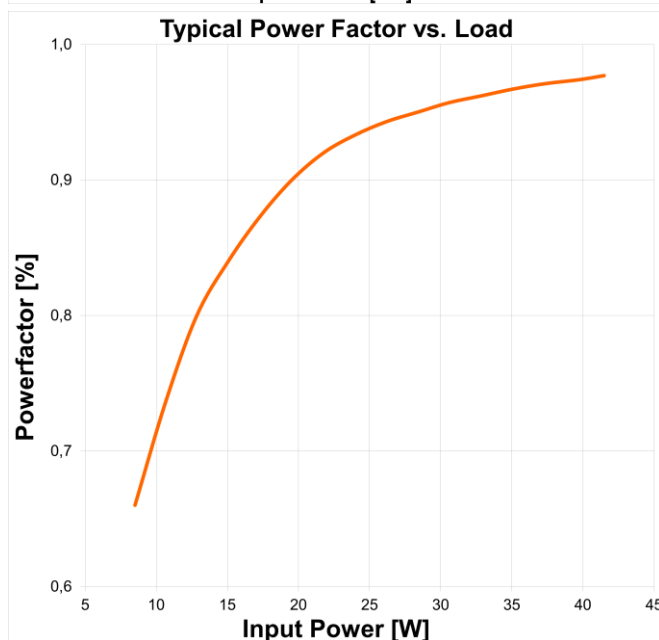
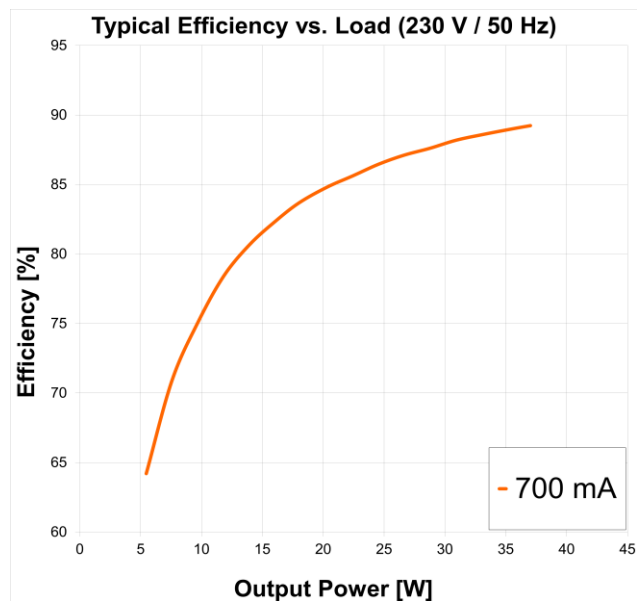
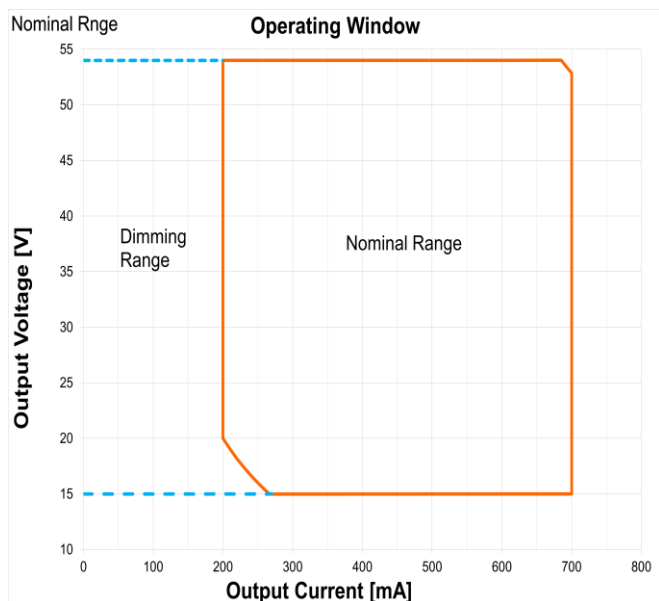
Wire preparation:

Push in
s:0.5-1.5



8-9 mm





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 1kV between L-N (symmetric surge) and 2kV between 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 37W.
- **Output over voltage protection:** shut down of the load might happen if Vout exceeds 54V.
 - **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 <60V.
- **Overtemperature protection:** the unit is protected against temporary overheating by automatic reduction of the output current when $t_c > 75^{\circ}\text{C}$.
- **Enhanced programmable options:**
 - **Driver Guard:** when active, the unit limits the maximum temperature of the driver according the prestart derating range.
 - **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.
- **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.

Standards

IEC 61347-1
IEC 61347-2-13
IEC 62384
IEC 62386
IEC 61000-3-2
IEC 61000-3-3
IEC 61547

Ordering information

Product name	Type	EAN10	EAN40	NAED	Pieces / box
OTI DALI 35/220-240/700 LT2 L G2	AM0631500OL	4052899551763	4052899551770	n.a.	20

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