

Light is OSRAM

OSRAM

OTi DALI 35/220-240/400 D LT2 UF L OTi DALI 75/220-240/700 D LT2 UF L

NEW flexibility in luminaire design Ultraflat Constant Current DALI Driver



Ultraflat (11mm height) smart linear driver.
Linear housing
Ultraflat family – including TouchDIM/DALI Sensor

Benefits

Ultraflat housing, only 11mm height linear shape
Wide operating range: up to 700mA
Adjustable current via DALI or NFC Technology
Suitable for emergency lighting units.
Following DALI Ed.2

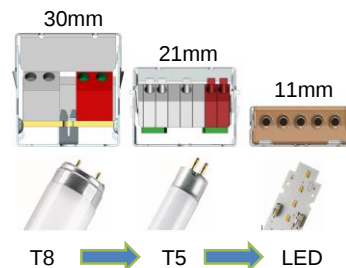
Applications

NEW luminaire designs & applications

Linear/area – Floor standing, pending, surface mounted
Office – Hospitality – Education

Housing dimensions:

OTi DALI 35/220-240/400 D LT2 UF L (360*30*11)
OTi DALI 75/220-240/700 D LT2 UF L (360*30*11)



Approval marks

CE, , ENEC, VDE, EMC, EAC, C-Tick, EL
In preparation, if not already printed on product label

Product Features

- Ultraflat housing (11mm height)
- DALI or NFC wireless programming
- Very high efficiency > 92%
- Low stand-by consumption < 0.25 W
- Output power up to 75 W
- Suitable for emergency lighting
- 5 years guarantee
- Dimming down to 1% / DALI Ed. 2
- Overload & -temperature protection
- Very wide operating window up to 700mA
- 100'000 h lifetime at $t_c = 65^\circ\text{C}$
- $t_c \text{ max} = 75^\circ\text{C}$
- Wide t_a range $-25 - +60^\circ\text{C}$ (35W)

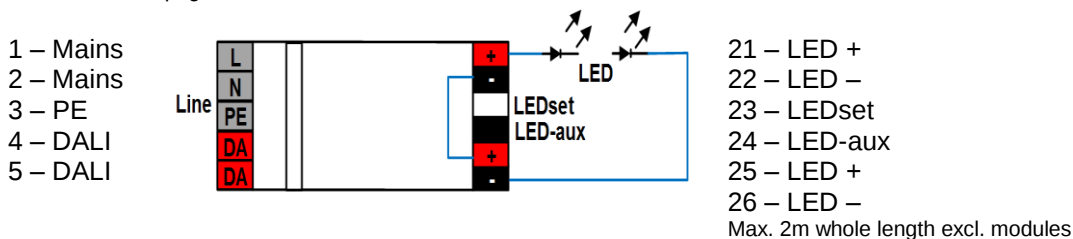
Electrical Specifications

	Item	Value	Unit	Remarks
INPUT	Nominal voltage	220 – 240	V	
	Nominal frequency	0 / 50 / 60	Hz	Pulsating DC
	AC voltage range	198 – 264	V	
	DC voltage range	176 – 276	V	DC or Pulsating DC
	Maximum voltage	350	Vac	2h maximum
	Nominal current	0.30	A	
	Total Harmonic Distortion (THD)	< 10	%	Full load
	Power factor	> 0.95		Full load, 220-240V, 50Hz / see graphs
	Efficiency	Up to 92	%	Full load, 220-240V, 50Hz / see graphs
	Starting time	≤ 0.5	s	
	Stand-by power	< 0.25	W	
	Protection class	I		
	Inrush Current	35W: 10 75W: 20	A pk	35W: Max, th = 220 µs 75W: Max, th = 170 µs
	Max. unites per circuit breaker	B16: 30; B10: 18 B16: 20; B10: 12		35W / I max = 10 A Th = 220 µs 75W / I max = 20 A Th = 170 µs
OUTPUT	PE current	< 0.5	mA	
	Nominal voltage range	54 – 240	V	
	Maximum voltage	< 250	Vdc	w/ open circuit
	Nominal current range	150-700 (75W) 75-400 (35W)	mA	75W LEDset open: 75mA; LEDset short: 75mA 35W LEDset open: mA; LEDset short: mA
	Current accuracy	+/- 5	%	
	Current ripple	< 5	%	
	Nominal power range	8 – 75 (75W) 0.5 – 30 (35W)	W	
	Maximum power	Up to 75W	W	
	DC Output current (EL)	15	%	Preset value, adjustable byTuner4TRONIC®
	Galvanic isolation	No		Non isolated
Dimming	Dimming control	yes		
	Dimming range DALI 2	1...100	%	Mixed mode
ENVIRONMENT	Housing dimensions (LxHxW)	360x30x11*	mm	*+/- 5% production tolerance
	Ambient temperature range t_a	-25 ... +60	°C	35W; (75W: -25...+50)
	Maximum case temperature t_c	75	°C	
	Max. case temp. in fault condition	120	°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	> 100'000		
	Expected lifetime	50'000 100'000	h	t_c 75°C, 0.2% / 1'000h failure rate, 24h ON t_c 65°C, 0.1% / 1'000h failure rate, 24h ON

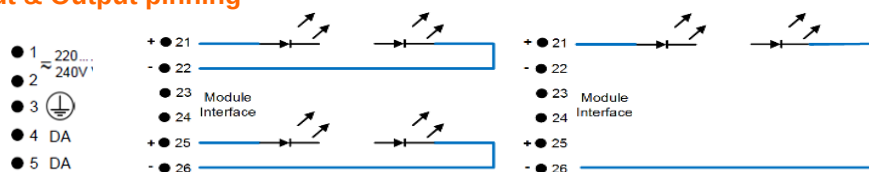
Protections

Overtemperature, Overload, No load, Short-circuit, Input overvoltage, Output overvoltage, Output undervoltage

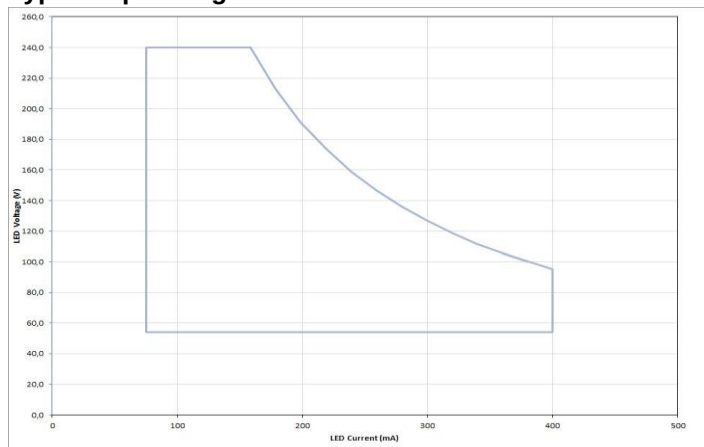
See remarks on page 4.



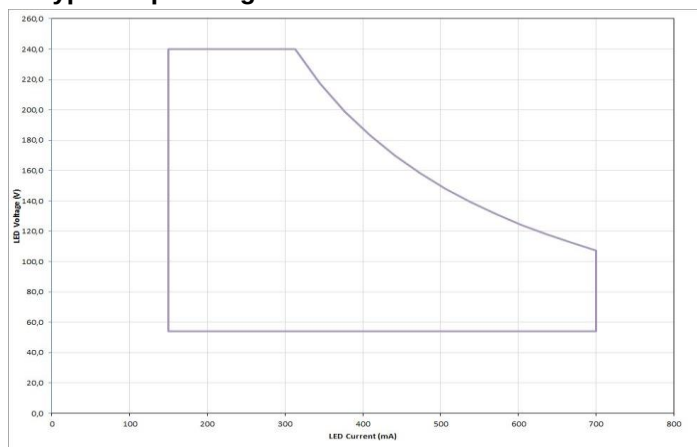
Input & Output pinning



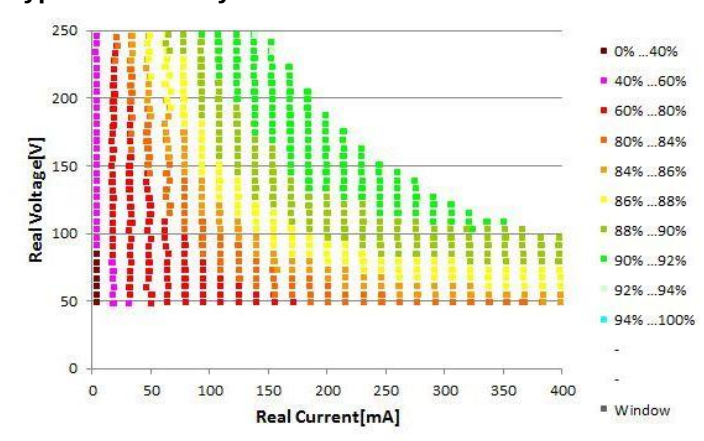
Typical operating Window – 35W



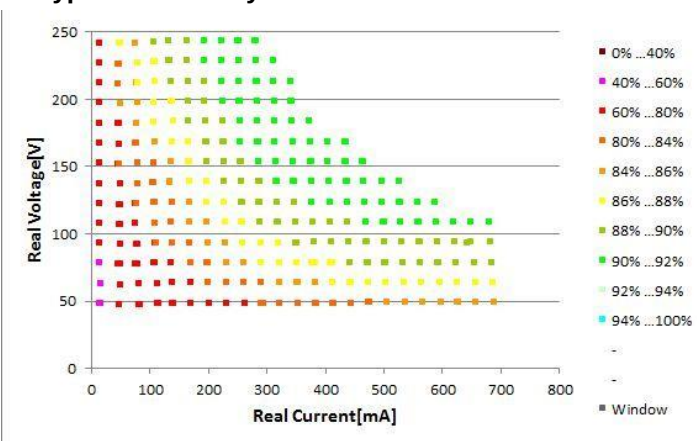
Typical operating window – 75W



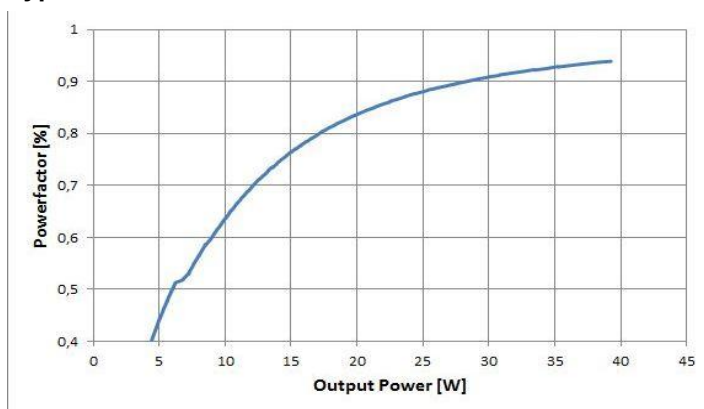
Typical Efficiency vs load – 35W



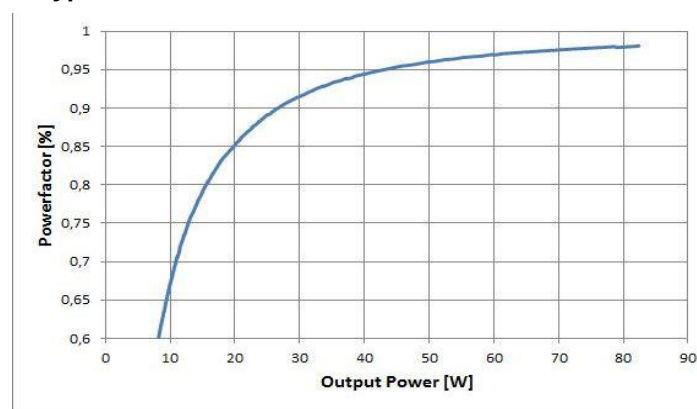
Typical Efficiency vs load – 75W



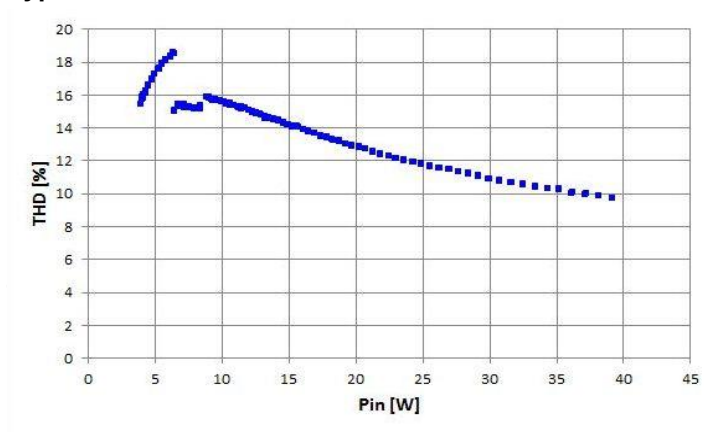
Typical Power factor vs. load – 35W



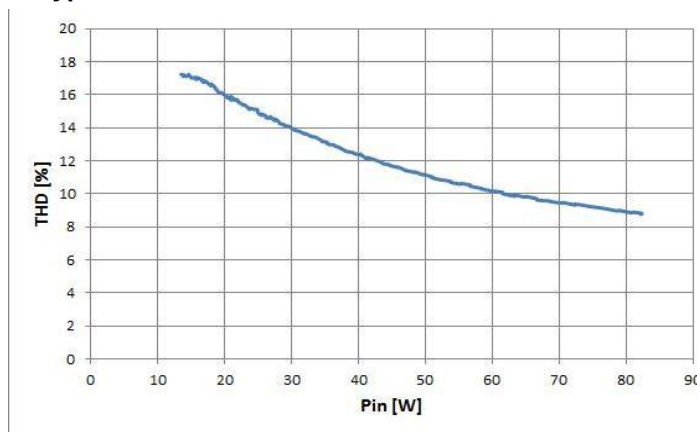
Typical Power factor vs. load – 75W

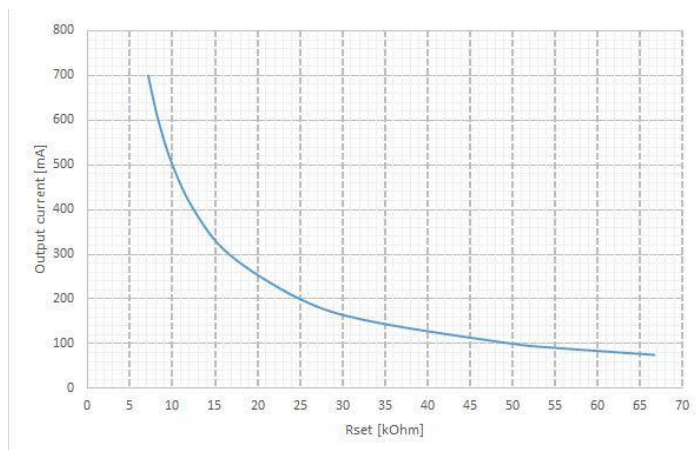


Typical THD vs load – 35W



Typical THD vs load – 75W

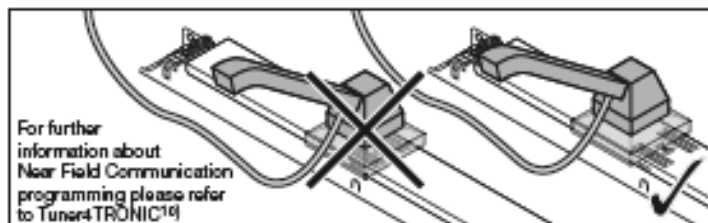




Rset formula (refer to LEDset2 application note)

$$I_{OUT} [A] = \frac{5V}{R_{set} [\Omega]} \times 1000$$

Near Field Communication



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 38/75W.
- **Output over voltage protection:** the unit automatically reduces the output current to keep the output voltage below 250V. If the LED module voltage strongly exceeds the specified 240V shutdown may happen.
- **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 $t_c > 75^\circ\text{C}$
- **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

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

Ordering information

Product name	Type	EAN10	EAN40	NAED	Pieces / box
OTi DALI 35/220-240/400 D LT2 UF L	AB4503200DG	4052899957022	4052899957091	n/a	20
OTi DALI 75/220-240/700 D LT2 UF L	AB3066300DG	4052899957046	4052899957114	n/a	20

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