Light is OSRAM

OSRAM

Product Datasheet - Preliminary

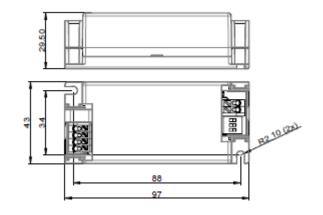
IT DALI 30/220-240/700 CS Constant Current DALI LED driver

The reliable driver for energy saving lighting. DALI-2 certifited; Embedded with Touch DIM functionality; High flexibility thanks to wide operating range; Simple and easy current setting via dipswitch interface.

Benefits

Wide operating range: 350/400/450/500/550/600/650/700mA Simple and easy current setting via dipswitch High quality of light with low ripple current < 5% Small size enables compact fixture design Built in and independent mounting options (with cable clamp) With Touch DIM functionality





Applications Office - Shop - Hospitality Spotlights, Downlights Panels and other indoor luminaires

Approvals (In preparation, if not printed on product label)



Size (L x W x H) mm: 97 x 43 x 29.5 Housing material: plastic, white Product Weight: 112.5g

Product Features

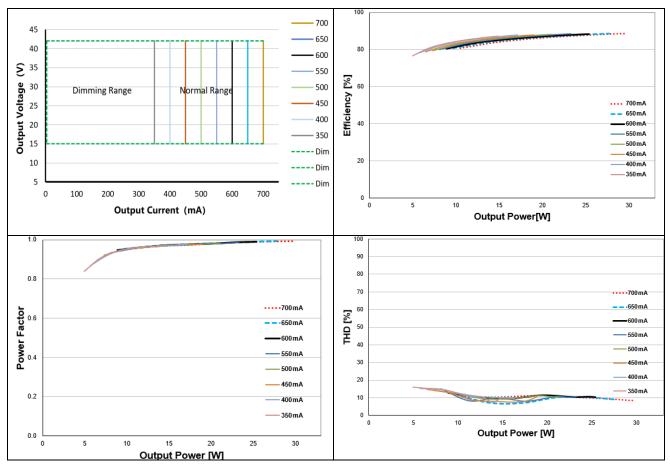
- Output currents: 350/400/450/550/600/650/700 mA
- Output voltage: 15 VDC 42 VDC
- Amplitude dimming 1...100%
- Typ. Efficiency: 88 %
- Low stand-by consumption < 0.5 W

- Dipswitch interface
- Touch DIM functionality
- Low ripple < 5 %, Low THD < 10 %
- Suitable for class I and II luminaires
- 50,000 hours lifetime at tc max.

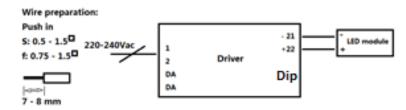
Electrical Specifications

	-			
	Item	Value	Unit	Remarks
	Nominal Voltage	220 - 240	V	
	Nominal frequency	0 / 50 / 60	Hz	
	AC voltage range	198 – 264	V	
	DC voltage range	176 - 276	V	
	Maximum voltage	275	VAC	48hrs maximum
	AC Nominal current	0.161	Α	Full load, 230V, 50Hz
	DC Nominal current	0.078	Α	50% load, 230V, 0Hz
	Total Harmonic Distortion (THD)	< 10	%	Full load, 230 V, 50 Hz / see graphs
⊢	Power factor	0.98		Full load, 230 V, 50 Hz / see graphs
INPUT	Efficiency	88	%	Full load, 230 V, 50 Hz, typical / see graphs
	Power losses	3.82	W	Maximum, full load
	No-load power	n/a	W	Load switching on output side is not permitted
	Network stand-by power	< 0.5	W	
	Protection class	II		Suitable for class I & II luminaires
	Leakage current	< 0.7	mA	Output floating
	Inrush current	30	A pk	twidth = 100µs typical (measured at 50% lpeak)
	Max. units per circuit breaker	B10: 25; C10: 37 B16: 40; C16: 60 B25: 62; C25: 93	pcs	
	Nominal voltage range	15 – 42	V	
	Maximum voltage	< 60	V	Open circuit
	Nominal current range	350/400/450/500/550/600/650/700	mA	Default current: 700mA
	Current accuracy	+/- 5	%	
5	Current ripple	< 5	%	Ripple / average @ 100 Hz
4	Pst LM SVM	≤ 1 ≤ 0.4		Full load Full load
ουτρυτ		5.3 – 29.4	14/	Partial Load.
0	Nominal power range		W	
	Maximum power	29.4	W	Ta ≤ Max.
	Emergency Output Factor (EL)	15% – 50%		EOFi = 15% - 50%, @Ta=80 °C No hazard 3,75 kVrms. Output to mains - Touch
	Galvanic isolation	SELV		current < 0.7 mA
	Dimming control	Yes		DALI-2
	Dimming range	1 -100	%	
Σ	Dimming technique PWM frequency	Analog dimming n/a	Hz	
	Galvanic isolation	Basic / Double	п	Basic DALI to Primary/ Double DALI to
	Touch DIM	Yes		Secondary
	Ambient temperature range ta	-20+50	°C	
	Maximum case temperature to	80	°C	
F	Maximum case temperature to Max. case temp. in fault condition	110	°C	
Ш	Storage temperature range	-25+85	°C	
Σ	Relative humidity	585	%	Not condensing
NC	Surge transient protection	1	kV	L/N
ENVIRONMENT	Environmental rating	Indoor		
	IP rating	IP 20		
Ш	Mains switching cycles	> 100'000		
		- 100 000	 	@tcmax = Max. °C, 10% failure rate
	Expected lifetime	50,000	hrs	Storian - Max. C, 1070 failure fate
S			hrs	IC protection type for protection against
SNO	Expected lifetime Over temperature	Yes	hrs	IC protection type for protection against overheating
TIONS	Expected lifetime Over temperature Overload	Yes Yes	hrs	IC protection type for protection against overheating Automatic, reversible
DTECTIONS	Expected lifetime Over temperature Overload No load	Yes Yes Yes	hrs	IC protection type for protection against overheating Automatic, reversible Limitation of Output voltage < 60V
PROTECTIONS	Expected lifetime Over temperature Overload	Yes Yes	hrs	IC protection type for protection against overheating Automatic, reversible

Electrical characteristics



Wiring Diagram



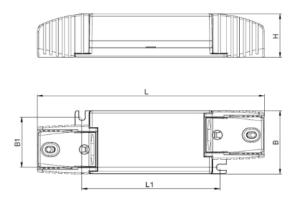
For built-in: 0.5-1.5 $\rm mm^2,$ for independent: 0.75-1.5 $\rm mm^2$

Max. cable length -system: 2m

Hot plug-in or secondary switching of LEDs is not permitted and may cause a very high current to the LEDs

DIP1	DIP2	DIP3	Current (mA)			
OFF	OFF	ON	350			
OFF	OFF	OFF	400			
OFF	ON	OFF	450			
OFF	ON	ON	500			
ON	OFF	OFF	550			
ON	OFF	ON	600			
ON	ON	OFF	650			
ON ON		ON	700			
Current selected by Dip switch						

For independent type



L	145mm
L1	88mm
В	43mm
B1	34mm
Н	29.5mm

An optional cable clamp is available. This cable clamp can be snapped into the driver and thus converts it into an independent installation.

Rated output power and current sets								
I out (mA)	350	400	450	500	550	600	650	700
U min (V)	15	15	15	15	15	15	15	15
U max (V)	42	42	42	42	42	42	42	42
P min (W)	5.3	6.0	6.8	7.5	8.3	9.0	9.8	10.5
P max (W)	14.7	16.8	18.9	21.0	23.1	25.2	27.3	29.4
Ta (°C)	50	50	50	50	50	50	50	50
Tc (°C)	80	80	80	80	80	80	80	80
AC Line Current, nominal@230V mA	84	94	106	116	127	138	149	161
Max power Loss@230V (W)	2.2	2.5	2.6	2.8	3.1	3.3	3.6	3.8
Input Power@230V (W)	16.9	19.3	21.5	23.8	26.2	28.5	30.9	33.2

Remarks

- For built-in type: Controlgear relies upon the luminaire enclosure for protection against accidental contact with live parts.

- Recommendations on how to dispose of it at the end of its life in line with Directive 2012/19/EU:

Separate control gear and light sources must be disposed of at certified disposal companies in accordance with Directive 2012/19/EU (WEEE) in the EU and with Waste Electrical and Electronic Equipment (WEEE) Regulations 2013 in the UK. For this purpose, collection points for recycling centers and take-back systems (CRSO) are available from retailers or private disposal companies, which accept separate control gear and light sources free of charge. In this way, raw materials are conserved, and materials are recycled.

- Ecodesign regulation information:

Intended for use with LED modules. The forward voltage of the LED light source shall be within the defined operating window of the control gear in all operating conditions including dimming if applicable. Separate control gear and light sources must be disposed of at certified disposal companies in accordance with Directive 2012/19/EU (WEEE) in the EU and with Waste Electrical and Electronic Equipment (WEEE) Regulations 2013 in the UK. For this purpose, collection points for recycling centers and take-back systems (CRSO) are available from retailers or private disposal companies, which accept separate control gear and light sources free of charge. In this way, raw materials are conserved, and materials are recycled.

Standards

IEC 61347-1	Product name	EAN10	EAN40	Units per shipping box
IEC 61347-2-13	IT DALI 30/220-240/700 CS	4062172306232	4062172306249	20
CISPR 15/EN 55015	OT Cable Clamp D-style	4052899077904	4052899077911	40
IEC 61547				
IEC 61000-3-2				
IEC 62384				

Disclaimer

Subject to change without notice. Errors and omission accepted. Always make sure to use the most recent release. The latest release of the datasheet is available under the following link www.osram.com

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