Light is OSRAM

OSRAM

Product Datasheet

IT DALI 42/220-240/1050 CS Constant Current DALI LED driver

The reliable driver for energy saving lighting.

DALI-2 certified; Embedded with Touch DIM/Corridor function; High flexibility thanks to wide operating range; Simple and easy current setting via dipswitch interface.



Wide operating range:
700/750/800/850/900/950/1000/1050 mA
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 (with cable clamp)
With Touch DIM functionality

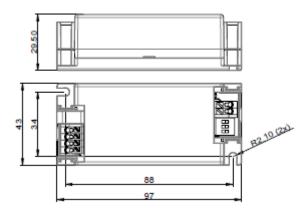
Applications

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: 137.5g

Product Features

- Output currents: 700/750/800/850/900/950/1000/1050 mA
- Output voltage: 15 VDC 42 VDC
- Amplitude dimming 1...100%
- Typ. Efficiency: 89 %
- Low stand-by consumption < 0.5 W

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

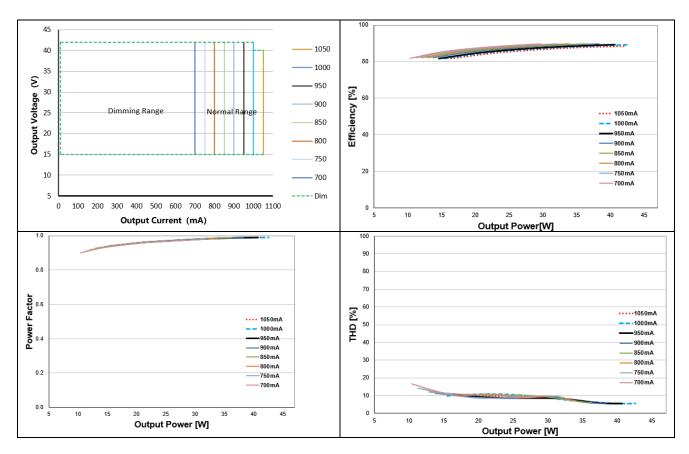
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Electrical Specifications

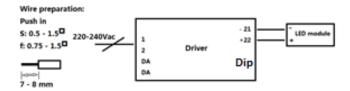
Nominal Voltage	see graphs typical / see 2W max. It side is not uminaires
Nominal frequency	see graphs typical / see 2W max. It side is not uminaires
AC voltage range	see graphs typical / see 2W max. It side is not uminaires
DC voltage range	see graphs typical / see 2W max. It side is not uminaires
Maximum voltage 275	see graphs typical / see 2W max. It side is not uminaires
AC Nominal current	see graphs typical / see 2W max. It side is not uminaires
DC Nominal current	see graphs typical / see 2W max. It side is not uminaires
Total Harmonic Distortion (THD)	see graphs typical / see 2W max. It side is not uminaires
Power factor	see graphs typical / see 2W max. It side is not uminaires
Efficiency 89	typical / see 2W max. It side is not uminaires
No-load power	2W max. It side is not
No-load power	ut side is not
Notinably power Notinably	uminaires
Protection class	
Leakage current	
Inrush current 30	neasured at
Max. units per circuit breaker B10: 18; C10: 27 B16: 28; C16: 42 B25: 44; C25: 66	neasured at
Max. units per circuit breaker B16: 28; C16: 42 B25: 44; C25: 66	
Maximum voltage	
Nominal current range	
Current accuracy +/- 5 % Current ripple < 5	
Current ripple	
Pst LM	
Maximum power 42 W Ta ≤ Max. Emergency output factor (EL) 0.15 – 0.5 EOFi = 0.15 – 0.5, @Ta hazard Galvanic isolation SELV 3,75 kVrms. Output to rourrent < 0.7 mA	Hz
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Emergency output factor (EL) 0.15 – 0.5 EOFi = 0.15 – 0.5, @Ta hazard 3,75 kVrms. Output to r current < 0.7 mA Dimming control Yes DALI-2/TouchDIM/Corri	
Calvanic isolation SELV SELV Dimming control Yes DALI-2/TouchDIM/Corri	
Dimming control SELV current < 0.7 mA DaLi-2/TouchDIM/Corri	=80 ℃ No
Discontinuous 4 400	
Dimming range 1 -100 % @ Maximum nominal ou	tput current.
Dimming technique Analog Dimming	
PWM frequency n/a Hz	
Galvanic isolation DALI/mains Basic	
Galvanic isolation DALI/output SELV	
TouchDIM Yes -20+50 700/750/800/850/900m.	
Ambient temperature range ta -20+45 °C 750/130/300/350/350/1100/1050mA	·
Measured on to point in	dicated on the
Max. case temperature tc 80	
Storage temperature range -25+85 °C	
Relative humidity 585 % Not condensing	
Surge transient protection 1 kV L/N	
Environmental rating Indoor	
IP rating IP 20	
Mains switching cycles > 100'000	
Expected lifetime 50,000 hrs @tcmax = 80 °C, 10% f	
Over temperature Yes	ailure rate
Overload Yes Automatic, reversible	ailure rate
Over temperature Overload No load Yes No load Yes Limitation of Output volution of	
Short-circuit Yes Automatic, reversible	
Output overvoltage Yes Limitation of Output vol	

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Electrical characteristics



Wiring Diagram



For built-in: 0.5-1.5 mm², for independent: 0.75-1.5 mm²

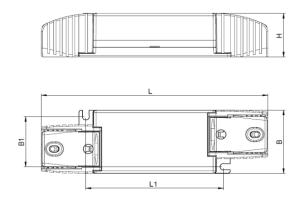
Max. cable length -system: 2m

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	700		
OFF	OFF	OFF	750		
OFF	ON	OFF	800		
OFF	ON	ON	850		
ON	OFF	OFF	900		
ON	OFF	ON	950		
ON	ON	OFF	1000		
ON	ON	ON	1050		
Current selected by Dip switch					

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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)	700	750	800	850	900	950	1000	1050
U min (V)	15	15	15	15	15	15	15	15
U max (V)	42	42	42	42	42	42	42	40
P min (W)	10.5	11.3	12.0	12.8	13.5	14.3	15.0	15.8
P max (W)	29.4	31.5	33.6	35.7	37.8	39.9	42.0	42.0
Ta (°C)	50	50	50	50	50	45	45	45
Tc (°C)	80	80	80	80	80	80	80	80
AC Line Current, nominal@230V (A)	0.160	0.170	0.182	0.193	0.203	0.215	0.226	0.226
Max power Loss@230V (W)	3.4	3.6	3.9	4.3	4.4	4.8	5.1	5.4
Input Power@230V (W)	32.8	35.1	37.5	40.0	42.2	44.7	47.1	47.4
DC Line Current, nominal@230VDC (A) EOFi=15%	0.027	0.028	0.030	0.032	0.034	0.036	0.037	0.038
DC Line Current, nominal@230VDC (A) EOFi=50%	0.078	0.084	0.090	0.095	0.100	0.106	0.112	0.112

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Remarks

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

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: Double or reinforced insulation between live parts and external parts which contact with the luminaire.

- Emergency lighting

This LED power supply is suitable for emergency lighting fixtures acc. to EN 60598-2-22., with emergency output factor EOFI=0.15 (default value, can be programmed up to EOFI=0.5) and related duration time of 1h at least. Function in emergency is ensured up to ta=80°C.

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

Product name	EAN10	EAN40	Pieces / box
IT DALI 42/220-240/1A0 CS	4062172306256	4062172306263	20
OT Cable Clamp D-style	4052899077904	4052899077911	40

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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