

Light is OSRAM

OSRAM

Product data sheet: ICUTRONIC® IT DALI 40/220-240/1A0 NFC

Compact constant current LED driver with DALI Interface

Wide operating area, 10...100% dimmable

Compact SELV DALI driver
Prepared for the new DALI data standard

Benefits

Super compact SELV DALI LED driver 42W
Fast programming / current set via NFC*
Amplitude dimming 10...100%
For independent installation

Applications

Spots and downlights
Office – Shop - Hospitality

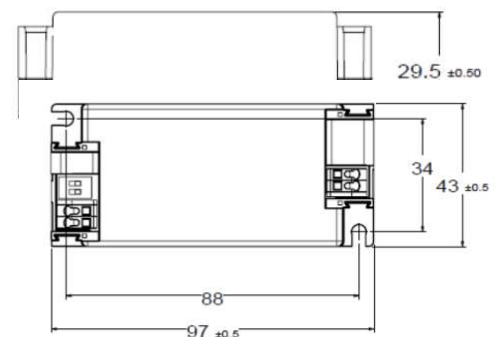
Approbations & Certifications CE, ENEC, CCC

In preparation, if not already printed on the label

*For more information please refer to Tuner4TRONIC

Housing material: plastic, white.

Preliminary



Product Features

- Output current range 700-1050mA
- NFC Interface
- Amplitude dimming 10-100%
- Low stand-by consumption <0.5 W
- Through-looping of mains and DALI
- New DiiA standards
- Low LF-ripple < 5%
- 50'000 h lifetime at tc max
- 5 years guarantee

Electrical Specifications

	Item	Value	Unit	Remarks
INPUT	Nominal voltage	220 – 240	V	
	Nominal frequency	50 / 60	Hz	
	AC voltage range	198 – 264	V	
	DC voltage range	NA	V	
	Maximum voltage	275	Vac	2 h maximum, unit might not operate in this abnormal condition
	Nominal current	0.21	A	
	Total Harmonic Distortion (THD)	< 10	%	Full load
	Power factor	0.98		Full load, 220 – 240 V, 50 Hz / see graphs
	Efficiency	90	%	Full load, 220 – 240 V, 50 Hz / see graphs
	Stand-by power	< 0.5	W	
	Protection class	II		
	Inrush current	20	A pk	th = 200 µs
	Max. units per circuit breaker	B16: 25 B10: 15		
OUTPUT	Nominal voltage range	18 – 40	V	
	Maximum voltage	< 60	Vdc	w/ Open Circuit
	Nominal current range	700 – 1050	mA	Default current 700mA
	Current accuracy	+/- 5	%	
	Current ripple 100Hz	< 5	%	
	Nominal power range	12.6 – 42	W	
	Maximum power	42	W	
	Galvanic isolation	SELV		
Dimming	Dimming control	yes		DALI
	Dimming method	Analog dimming		
	Dimming range	10...100	%	
	Dimming Standard	DALI 2		
ENVIRONMENT	Galvanic isolation	Basic		Mains to DALI
	Ambient temperature range t_a	-20 ...+50	°C	700-900mA
		-20 ...+45	°C	900-1050mA
	Maximum case temperature t_c	85	°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	2 4	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	h		$t_c = 85^{\circ}\text{C}$, 0.2% / 1'000 h failure rate $t_c = 75^{\circ}\text{C}$, 0.1% / 1'000 h failure rate
	100'000			

NFC compatible with MD SIG standard

Protections

Over temperature

Yes

Overload

Yes

No load

Yes

Short-circuit

Yes

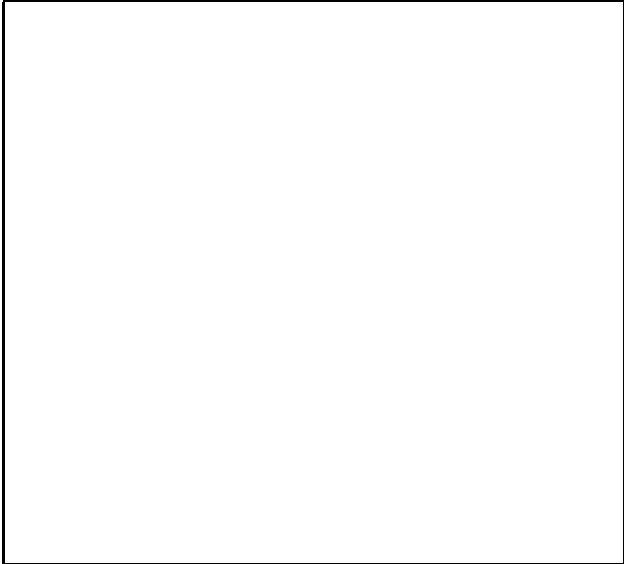
Input overvoltage

Maximum allowed input voltage 275V AC

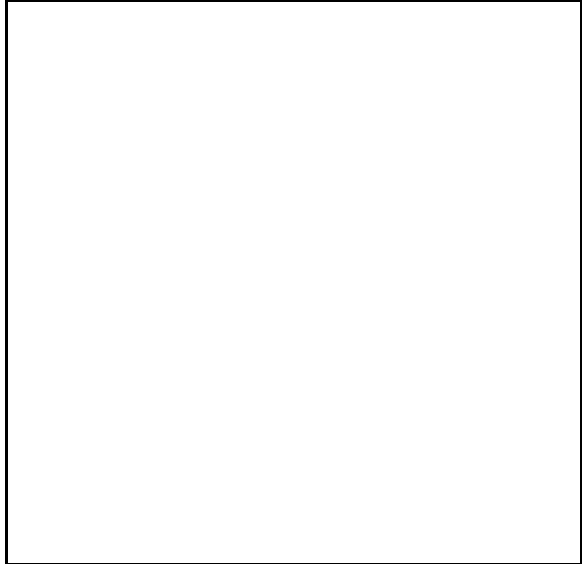
Output overvoltage

Yes, Limitation of Output voltage < 60V

Typical Operating window



**Typical Efficiency vs Load (230V/
50Hz,)**



Typical Powerfactor vs Load



Typical THD vs Load



Wiring Diagram

Terminal:	Push in terminals
Max. cable length - system:	2 m
Geometry (l x b x h):	97 x 43 x 29.5 mm
Weight:	140 g

For build-in S: 0.5-1.5, for independent S: 0.75-1.5

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

Product type	EAN10	EAN40
IT DALI 40/220-240/1A0 NFC	4052899617155	4052899617612

Remarks

- **Input over voltage protection: mains up to 275 Vac**, for 2 hours maximum, will not destroy both the unit and the load; shut down of load might occur in this condition.
- **Touch current:** lower than 0.7 mA, according to EN 60598-1 ann. G and EN 61347-1 annex A

Standards

IEC 61347-1; IEC 61347-2-13; IEC 62384; EN 55015; IEC 62386; IEC 61000-3-2; IEC 61000-3-3
IEC 61547; CISPR 15

Manufacturer's address:

OSRAM GmbH

Berliner Allee 65 86153 Augsburg
Germany

www.osram.com

The OSRAM logo is displayed in a bold, orange, sans-serif font at the bottom right of the page.