



COLOSSUS[®]

Excellence inside

DATASHEET

OD32NIDT842700A

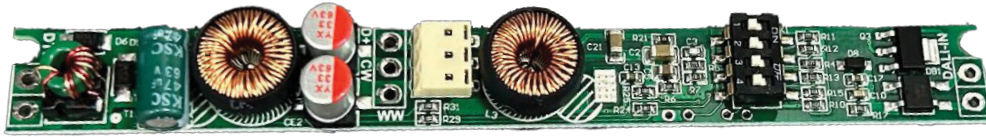
DALI- 2 DT8



Engineered with



Version: 01



*Image is for viewing purpose. Technical Data not to be drawn from above image.

Approval Markings:



Product Description

- DALI-2 Dimmable Constant Current Driver For Led Modules
- Adjustable Output Current Via DIP Switch
- Input Voltage 16-48VDC
- Output Ripple Current <5% (@ Full Load, <120 Hz) - Flicker Free
- High Efficiency ≥95% (48VDC, Output Current 42VDC/ 650- 700mA)
- Protection against Abnormal Operating Conditions Like Short Circuit Protection, Open Voltage Protection, Overload Protection.
- Compatible with DALI-2
- Nominal Life Time: 1,00,000 hours @ tc = 45°C

Functions

- Seamless Control via DALI-2
- CCT & Dimming Control
- Energy Efficiency
- Compatible with DALI-2 accessories
- Application oriented operation for maximum compatibility

Benefits

- 1-100% Deep Dimming
- Low Standby Power
- Smooth Transition over wide range of CCT & Intensity

Applications



Commercial
Spaces



Industrial
Spaces



Residential
Spaces



Hospitality

Technical Data

Mains Voltage Supply

Rated Voltage Range	48VDC
Rated Frequency	0 Hz
Max. Admissible Input Voltage Range(DC)	16-48VDC

Output Data

Constant current

Output current tolerance	±5%
Max. Ripple output current(with LED Load)	<5% (@ Full Load, <120 Hz)
Max starting Time	<1s (@ Full Load by DALI System)

Interface And Dimming Operation

Dimming Interface	DALI Dimming
DALI Function	DALI dimming (Max. lead wire length:300m) logarithm or linear dimming curve selectable 251,252,253,CLO
Dimming Range	DALI dimming: 0.1%-100% ,Dim to off .

Efficiency(typ.)

Full Load	>95%
-----------	------

Protections

Open Circuit	<48VDC
Output Short Circuit Protection	YES
Overload Protection	YES

Connection Terminals

Type	Push-in Terminal / Soldering
PRI Wire Cross Section / Length	0.5-1.0mm ² / 6-9mm
SEC Wire Cross Section / Length	0.5-1.0mm ² / 6-9mm
DALI Wire Cross Section / Length	0.5-1.0mm ² / 6-9mm

Wire Lengths

Max. Wire Length To Led Module	<2m
--------------------------------	-----

Temperatures (Operation)

Model No.	Ambient(ta)
OD32NIDT842700A	-25°C... +50°C

Product Specifications

Model No.	Input Current (max)	Input Power (max)	THD	Power Factor	Efficiency	Output Current	Output Voltage	Output Power (max)
OD32NIDT842700A	700mA	35W	NA	NA	>95%	100-700mA	10-42V	32W

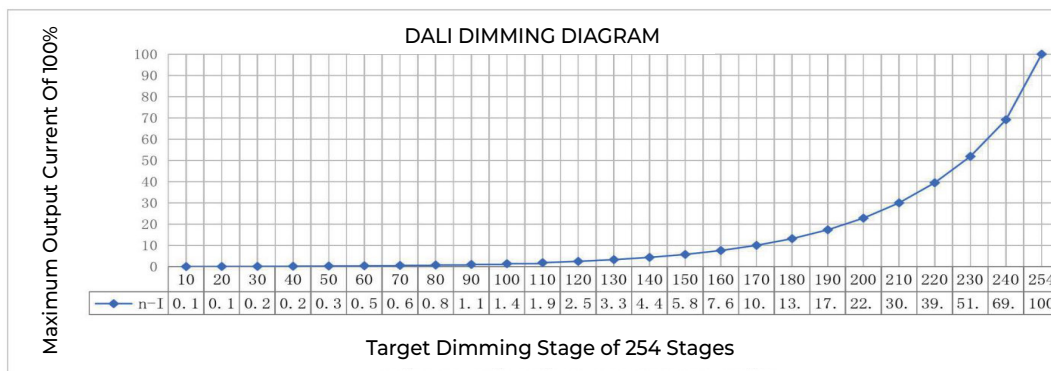
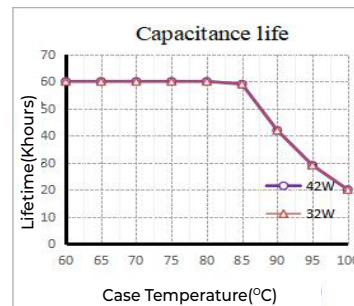
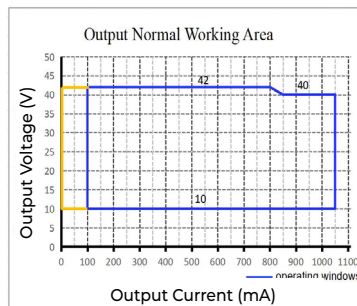
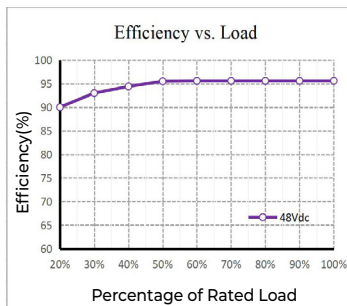
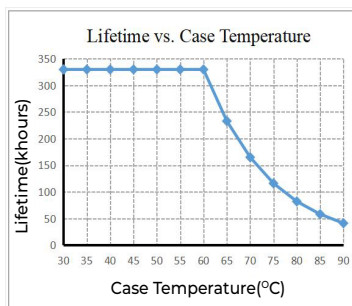
All specifications with 240 VAC are nominal operation and 100% load.

LED Current Selection

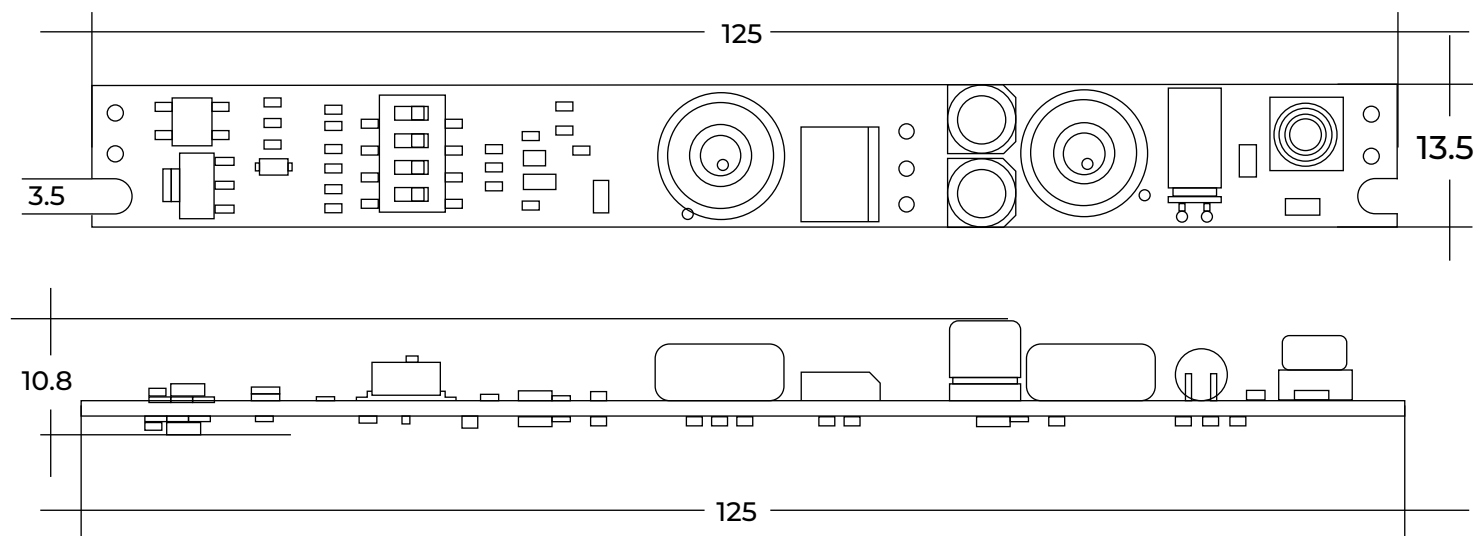
Output Current Configurable via NFC

Output Current	100-700mA
Output Voltage	10-42V
Output Power	1-32W

Graphs



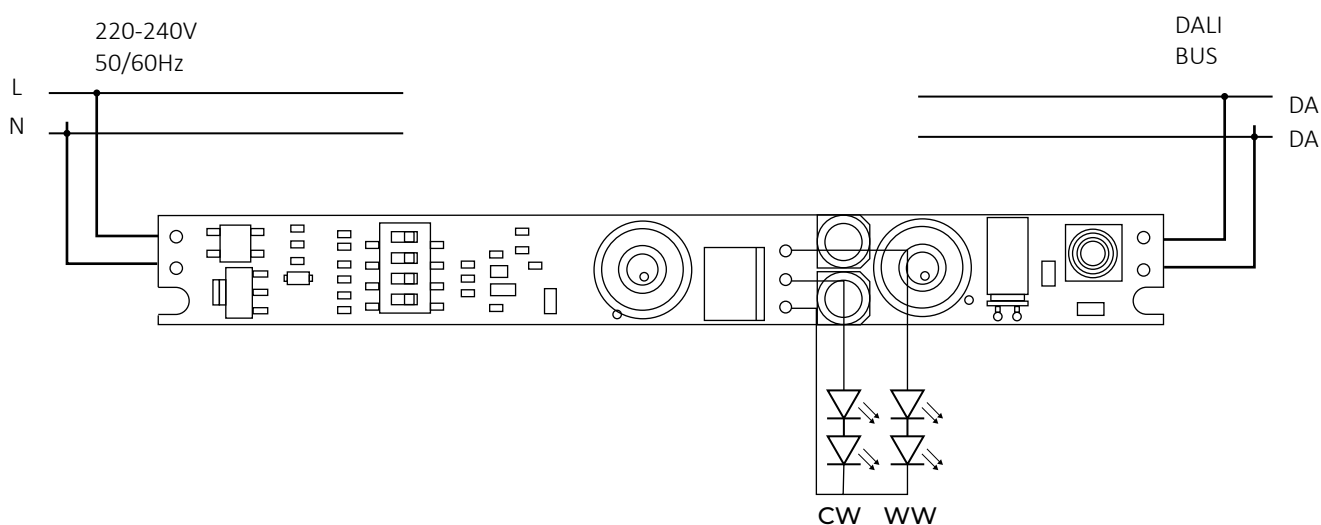
Housing Dimensions



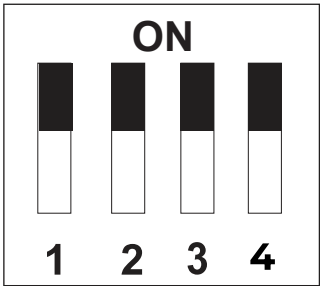
Dimensions (LxWxH)	125X13.5X10.8mm
Tolerance	± 1mm
Weight	13.2 gm

Wiring Diagrams

• DALI Dimming



Switch Configuration



DS Output Current Settings

S/W1	S/W2	S/W3	S/W4	DRIVE CURRENT (mA)
OFF	OFF	OFF	OFF	100
OFF	OFF	OFF	ON	150
OFF	OFF	ON	OFF	200
OFF	OFF	ON	ON	250
OFF	ON	OFF	OFF	300
OFF	ON	OFF	ON	350
OFF	ON	ON	OFF	400
OFF	ON	ON	ON	450
ON	OFF	OFF	OFF	500
ON	OFF	OFF	ON	550
ON	OFF	ON	OFF	600
ON	OFF	ON	ON	650
ON	ON	OFF	OFF	700

Expected Lifetime

Lifetime	50,000 hours
Warranty	5 years

Logistics Data

Model No.	OD32NIDT842700A
Weight (gm)	13.2 gm