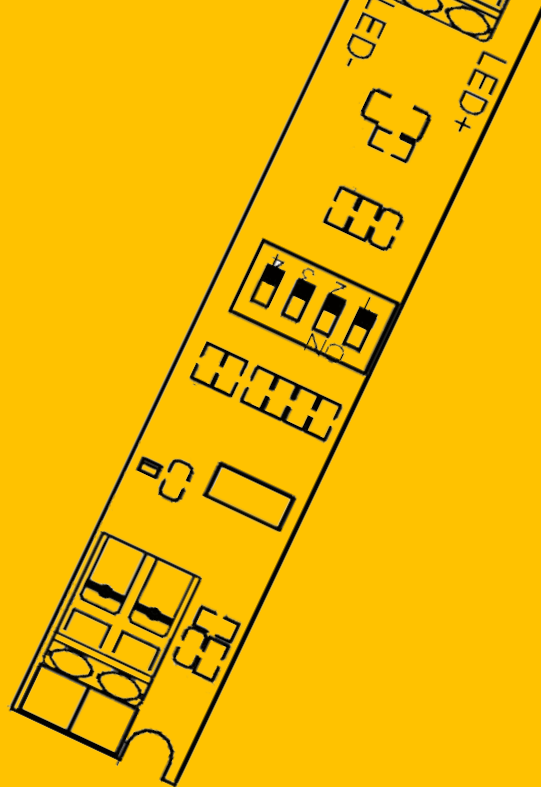




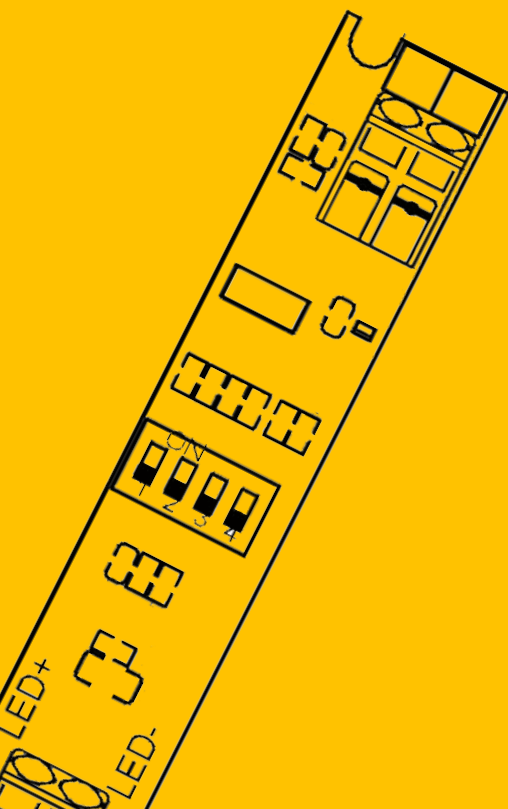
COLOSSUS[®]

Excellence inside

DATASHEET

OD42NIDT6421050A

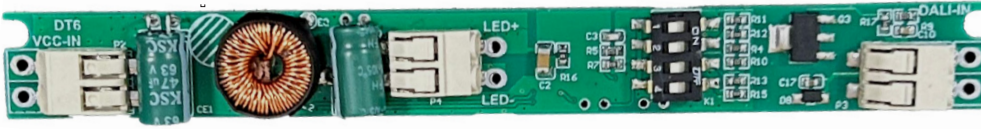
DALI- 2 DT6



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
- 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 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%
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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
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Temperatures (Operation)

Model No.	Ambient(ta)
OD42NIDT6421050A	-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)
OD42NIDT6421050A	1A	45W	NA	NA	>95%	450-1050mA	10-42V	42W

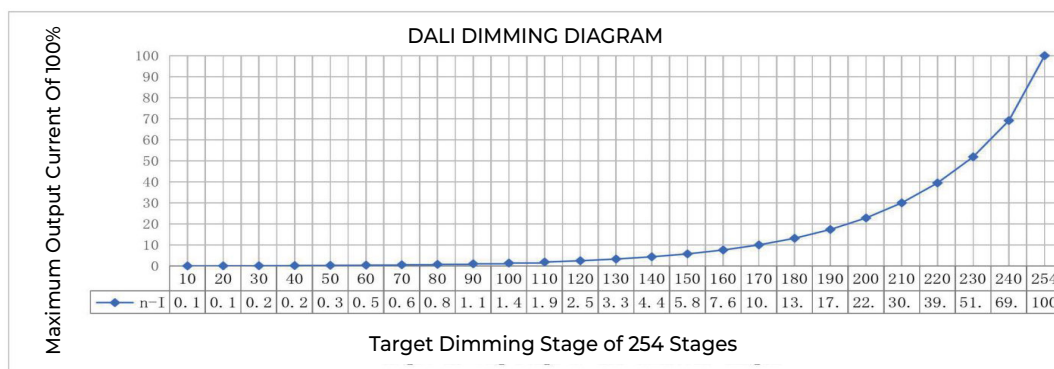
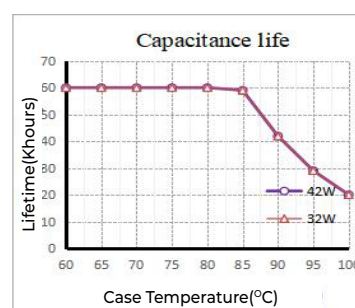
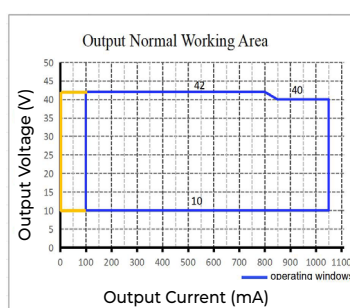
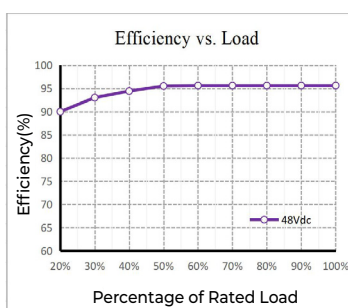
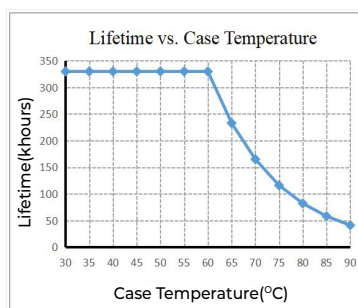
All specifications with 240 VAC are nominal operation and 100% load.

LED Current Selection

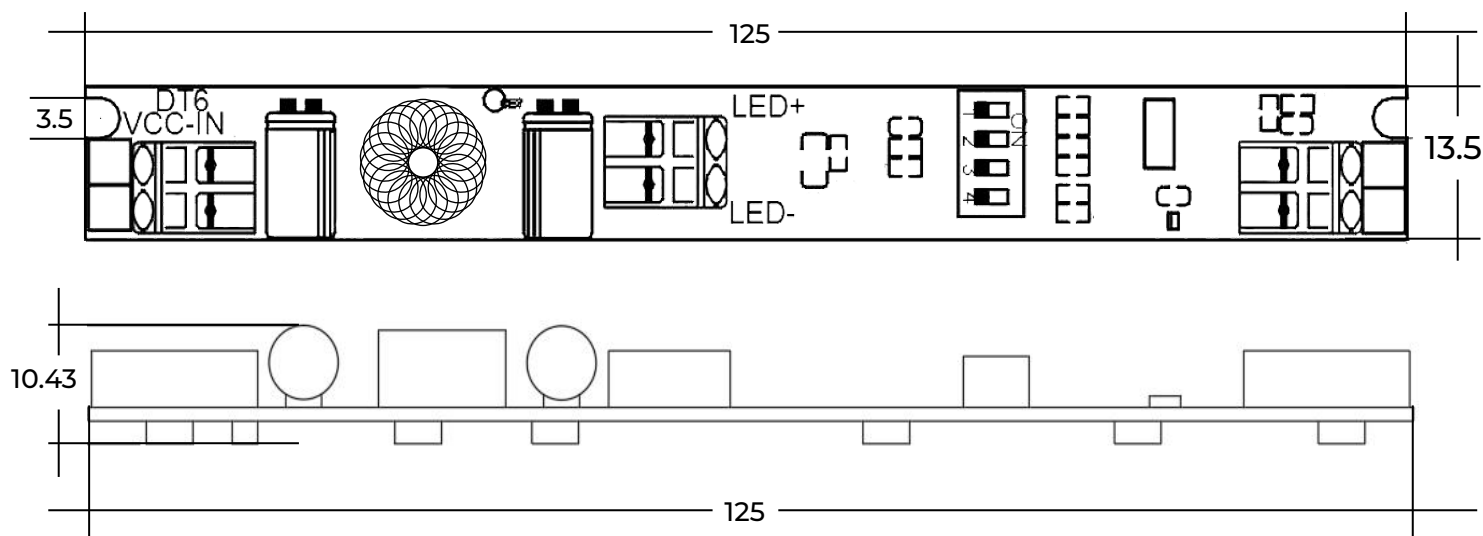
Output Current Configurable via NFC

Output Current	450-800mA	801-1050mA
Output Voltage	10-42V	10-40V
Output Power	4.5-33.6W	8-42W

Graphs



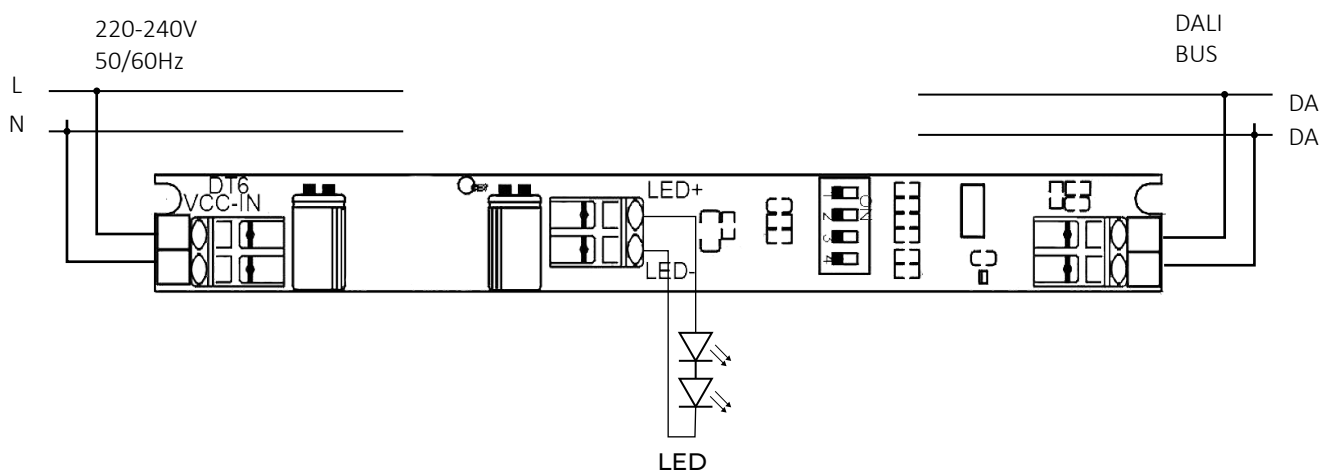
Housing Dimensions



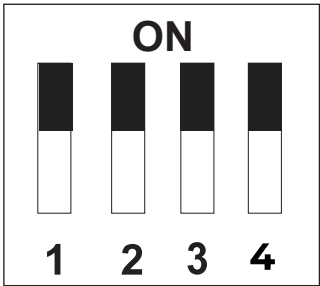
Dimensions (LxWxH)	125X13.5X10.43mm
Tolerance	± 1mm
Weight	12.5 gm

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	450
OFF	OFF	OFF	ON	500
OFF	OFF	ON	OFF	550
OFF	OFF	ON	ON	600
OFF	ON	OFF	OFF	650
OFF	ON	OFF	ON	700
OFF	ON	ON	OFF	750
OFF	ON	ON	ON	800
ON	OFF	OFF	OFF	850
ON	OFF	OFF	ON	900
ON	OFF	ON	OFF	950
ON	OFF	ON	ON	1000
ON	ON	OFF	OFF	1050

Expected Lifetime

Lifetime	50,000 hours
Warranty	5 years

Logistics Data

Model No.	OD42NIDT6421050A
Weight (gm)	12.5 gm