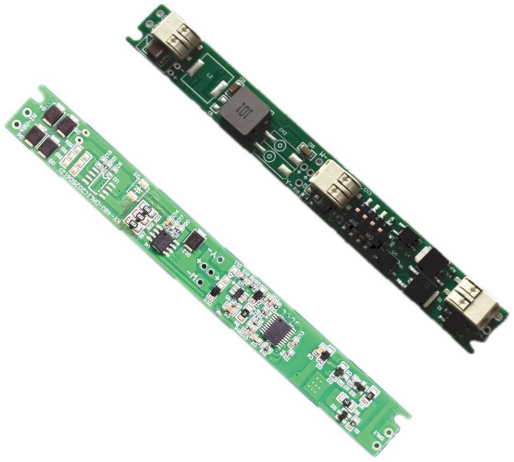
Magnetic Track Driver

KMT-150-1050-DALI
KMT-150-1050-2DALI

Constant Current
DC48V DT6 DT8

Features

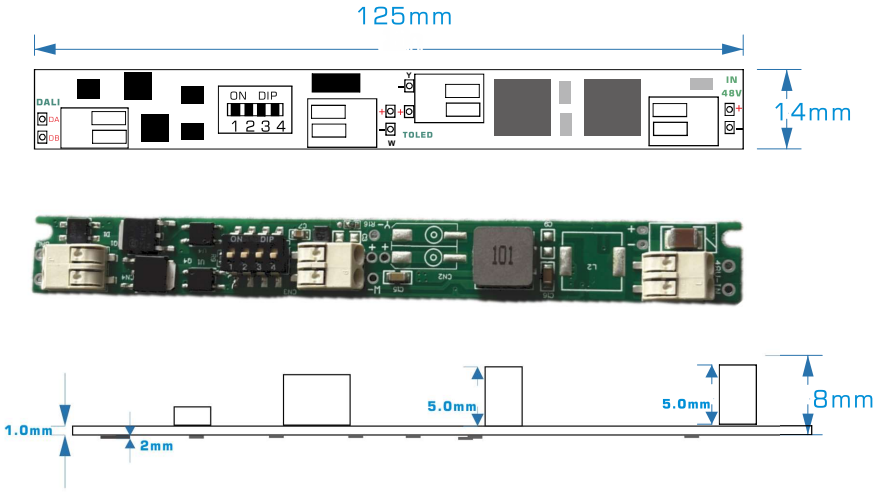
- Dimmable built-in and independent constant currenrt DALI driver
- Dimming rang: 0.1%-100%
- Max output powe 30W
- DC48V Input
- DC3-42V output ,Preferred Usage Range: 3-36VDC
- Low stand by power :0.5W
- Efficieny>90%
- Starting time<0.6S
- Flicker free
- Output current adjustable between 150-1050mA by DIP, there are 16 current options
- Suitable for the following tracks ;STUCCHI -9519-166-E
- DALI Standard:IEC62386: 101/102/207/209
- Nominal life-time is more than 55,000 hour



Advantages

- Constant current output available for a variety of popular led engines
- Linear design can be used for a variety of lighting fixture and troffers

Dimensions & Weight



Dimension Information	mm
PCBA Length	125
PCBA Width	14
PCBA Height	8
Weight	15g

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All parameters NOT specially mentioned are typical and measure at 48V input, rated current and at 25°C of ambient temperature.

Ordering Information

Full Product Code	KMT-150-1050-2DALI	KMT-150-1050-DALI
Full Product Name	Multi-current DT8 driver	Multi-current DT6 driver

Input Information

Input Voltage	48Vdc
Input Current	0.7A max.
Min. Operatinal Voltage	42Vdc
Ma Operational Voltage	50Vdc
Start Time	≤ 0.6S

Output Information

Output Voltage Range	3 ~ 36Vdc	
Open Circuit Voltage	48VDC	
Output Current Range	150 ~ 1050mA/2CH	150 ~ 1050mA
	(Please refer to the LED current settings by DIP)	
Output Current Ripple	≤10% @ max. output current	

Environment & Approbation

Protection Rating	NO
Ambient Temperature Range	-20°C to +45°C
Operating Condition	Damp and dry
Safety Standards	IEC61347-1, IEC61347-2-13
Standby Power Loss	≤0.5W
Isolation	Non-isolated

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Current Settings by DIP

● ON

Item	Current	Voltage Range	Power Max-W	DIP-1	DIP-2	DIP-3	DIP-4
1	150mA	3-42V	7W				
2	200mA	3-42V	9W				●
3	250mA	3-42V	11W			●	
4	300mA	3-42V	13W			●	●
5	350mA	3-42V	15W		●		
6	400mA	3-42V	17W		●		●
7	450mA	3-42V	19W		●	●	
8	500mA	3-42V	21W		●	●	●
9	550mA	3-42V	23W	●			
10	600mA	3-42V	26W	●			●
11	650mA	3-42V	28W	●		●	
12	700mA	3-40V	28W	●		●	●
13	750mA	3-36V	28W	●	●		
14	800mA	3-34V	28W	●	●		●
15	900mA	3-30V	28W	●	●	●	
16	1050mA	3-26V	28W	●	●	●	●

Protective Features

- Short-circuit behaviour

  In case of short-circuit at LED output, output is not outputting.

  When the short-circuit fault is removed, the output will return to normal automatically.

- No-load operation

  The LED driver will not be damaged in no-load operation. The output will work in hiccup mode when no load connects.If a LED load is reconnected, the output will return to normal automatically.

- Overload protection

  If the output power range is exceeded, the LED driver automatically decreases the maximum LED output current.

  If the LED voltage decreases to relieve the output power limit, the maximum LED output current will restore.

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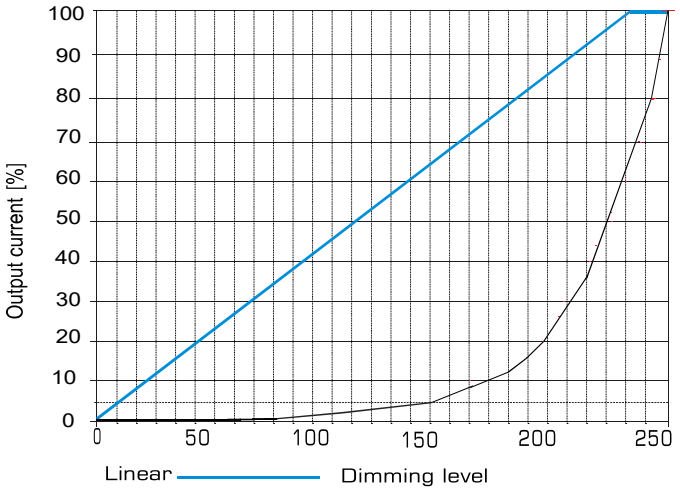
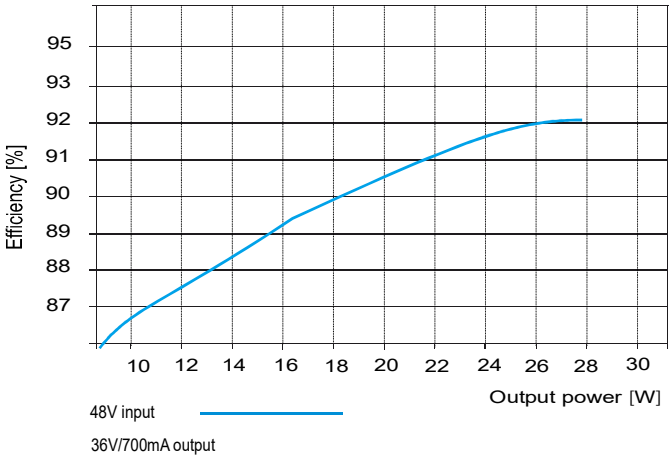
DALI 2

LUM Dimming

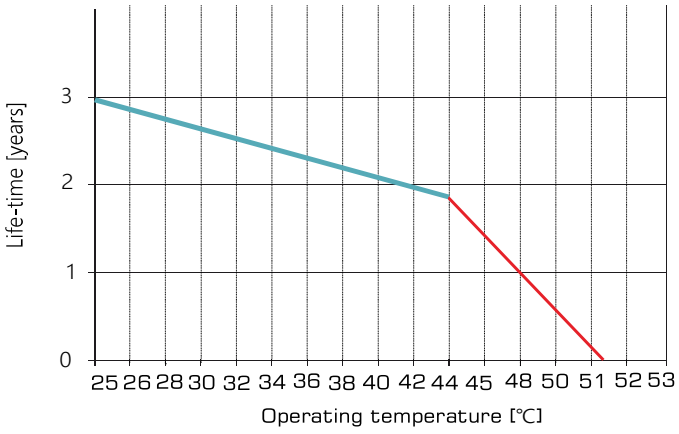


Efficiency vs Load

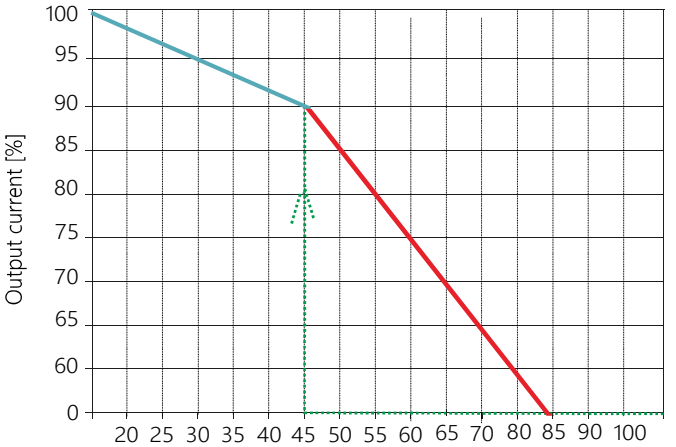


Life-Time

Adjust the load power according to the actual situation

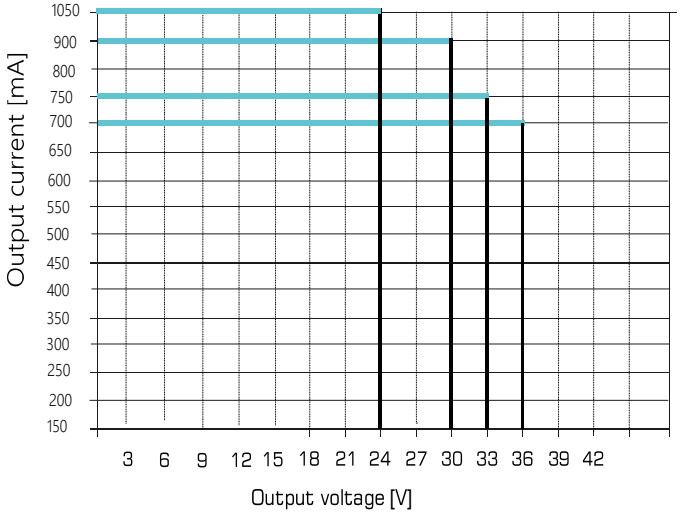


Over Temperature Derating



Adjust the load power according to the actual situation

Output Power Limit



Functions for DALI

Function	KTM-150-1050-DALI DALI-2 DT6 read	KTM-150-1050-DALI DALI-2 DT6 write	KTM-150-1050-2DALI DALI-2 DT8 read	KTM-150-1050-2DALI DALI-2 DT8 write
LED current	✓	✓	✓	✓
Min. dimming percentage	✓	✓	✓	✓
Dimming curve	✓	✓	✓	x
DALI default parameters	✓	✓	✓	✓
Scenes and groups	✓	✓	✓	✓
Output power limit	✓	✓	✓	✓

- LED current

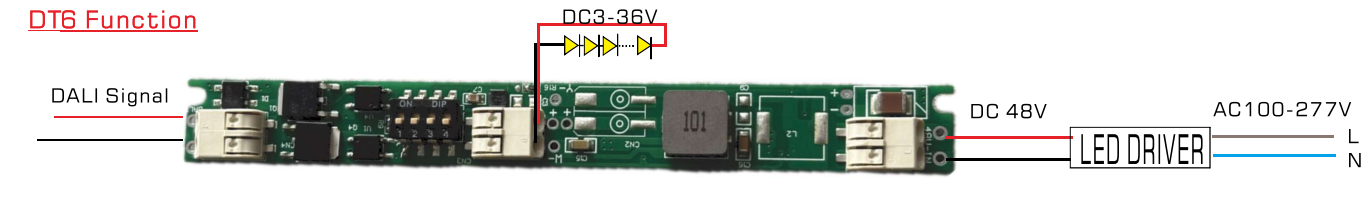
The LED output current must be adapted to the connected LED module. The value is limited by the current range of respective device.

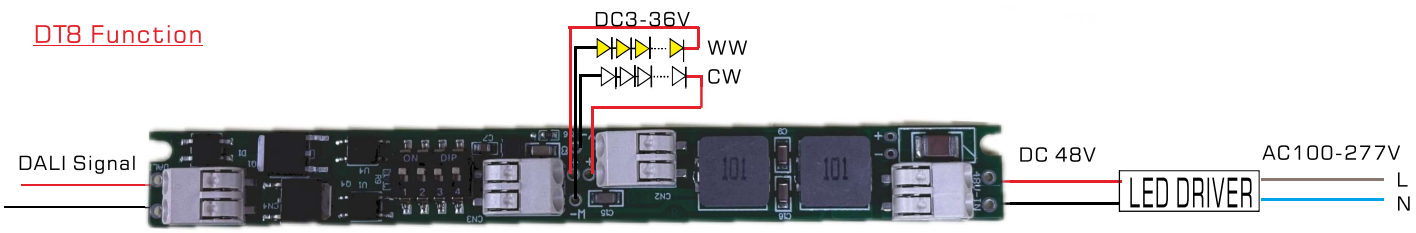
The LED current can be programmed by DALI, and the final setting will take effect immediately.In order to facilitate the use of end customers, the current chooses to add DIP

- Scenes and groups

The function provides a method to set the 16 scenes level and 16 groups by DALI, and the final setting will take effect immediately.

Wiring Diagram





Load Parameter Table

Output current	Load voltage [Current deviation value: +/-5%]									
	9V	12V	15V	18V	21V	24V	27V	30V	33V	36V
150mA	√	√	√	√	√	√	√	√	√	√
200mA	√	√	√	√	√	√	√	√	√	√
250mA	√	√	√	√	√	√	√	√	√	√
300mA	√	√	√	√	√	√	√	√	√	√
350mA	√	√	√	√	√	√	√	√	√	√
400mA	√	√	√	√	√	√	√	√	√	√
450mA	√	√	√	√	√	√	√	√	√	√
500mA	√	√	√	√	√	√	√	√	√	√
550mA	√	√	√	√	√	√	√	√	√	√
600mA	√	√	√	√	√	√	√	√	√	√
650mA	√	√	√	√	√	√	√	√	√	√
700mA	√	√	√	√	√	√	√	√	√	√
750mA	√	√	√	√	√	√	√	√	√	√
800mA	√	√	√	√	√	√	√	√	√	√
900mA	√	√	√	√	√	√	√	√	√	-
1050mA	√	√	√	√	√	√	√	-	-	-

Other Parameters

- Output power limit

This function protects the LED driver from overload by reducing the max. output current in case of operation above the output power limit.

The driver will continuously monitor the LED module voltage and automatically limit the output power less than 30W.

- Dimming curve selection

The driver supports logarithmic and linear dimming curve.

After changing the dimming curve, the light output and stored parameters about level may need to be reconfigured.

Installation Guide

Due to the limited space for heat dissipation on the track, when installing the track driver, please follow the instructions below. Make sure to install the Silicone heat sink in the manner described below.

Note: The silicone thermal pad is not a standard factory configuration. For requirements, please contact your dedicated sales representative