

Project Name:	
Type:	

DMD-50 Series

Constant Current 0-10V

PRODUCT FEATURE:

- Dimmable built-in and independent constant current LED driver
- Stucchi track compatible
- Dimming rang 0.5-10V
- Max output power 30W
- DC48V Power 30W
- DC3-42V output
- Low stand by power 0.5W
- Efficiency >90%
- Starting time <0.6S
- Flicker-free
- Output current adjustable between 50-700mA by DIP, there are 14 current options



ADVANTAGES:

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

WARRANTY

- See [Limited Warranty Policy](#) for more additional information

ORDERING INFORMATION:

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

FULL PRODUCT CODE	DMD-1030-700-010
FULL PRODUCT NAME	DC48V 0-10V multi-current LED power supply
INPUT INFORMATION	
INPUT VOLTAGE	48VDC
INPUT CURRENT	0.77A max
MIN. OPERATIONAL VOLTAGE	48VDC
MA OPERATIONAL VOLTAGE	50VDC
START TIME	≤ 0.6S
INRUSH CURRENT	Cold start ≤ 10A at 48VDC (twidh=200us measured at 10% Ipeak), oer NEMA 410
OUTOUT INFORMATION	
OUTPUT VOLTAGE RANGE	3 - 42VDC
OPEN CIRCUIT VOLTAGE	48VDC
OUTPUT CURRENT RANGE	50 - 700mA (please refer to LED current settings by DPI)
OUTPUT CURRENT RIPPLE	≤ 5% @ max output current
ENVIRONMENT & APPROBATION	
PROTECTION RATING	NO
AMBIENT TEMPERATURE RANGE	-20°C to +50°C
OPERATING CONDITION	Damp and Dry
SAFETY STANDARD	IEC61347-1, IEC61347-2-13
EMC EMISSION	Compliance to IEC 55015
EMC IMMUNITY	Compliance to IEC 61000-4-2,6, IEC 61547
STAND BY POWER LOSS	≤0.5W
ENVIRONMENT & APPROBATION	
DIMMING	Output constant current level can be adjusted by applying one of the three methodologies between DIM+ and DIM-.0 ~ 10VDC, or 10V PWM signal or resistance. Applying additive 0-10V DC

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CURRENT SETTINGS BY DIP:

ITEM	CURRENT	VOLTAGE RANGE	POWER MAX-W	● ON			
				1	2	3	4
1	50mA	3-42V	2W	○	○	○	○
2	100mA	3-42V	4W	○	●	○	○
3	150mA	3-42V	6W	●	●	○	○
4	200mA	3-42V	8W	○	○	●	○
5	250mA	3-42V	10W	●	○	●	○
6	300mA	3-42V	12W	○	●	●	○
7	350mA	3-42V	14W	●	●	●	○
8	400mA	3-42V	16W	○	○	○	●
9	450mA	3-42V	18W	●	○	○	●
10	500mA	3-42V	20W	○	●	○	●
11	550mA	3-42V	22W	●	●	○	●
12	600mA	3-42V	24W	○	○	●	●
13	650mA	3-42V	26W	●	○	●	●
14	700mA	3-42V	28W	●	●	●	●

PROTECTIVE FEATURES:

- **Short-circuit behavior**

In case of short circuit at LED output the output is - , working in hiccup mode.
When the short-circuit fault is removed, the output will return to normal automatically.

- **No-load operation**

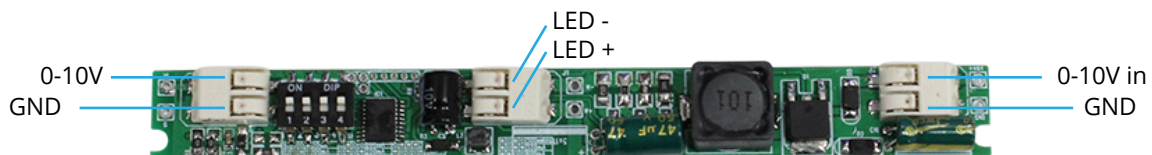
The LED driver will not be damaged in no-load operation. The output will work in hiccup mode when no load connects.
.If a LED load is reconnected, the output will return to normal automatically.

- **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.

- **Intelligent temperature protection**

If the temperature threshold values are exceeded, the LED output current is limited.
When the temperature of drive exceeds 70°C, the output current begins to derate.
Then the temperature every rises 1°C, and the current drops 5%.

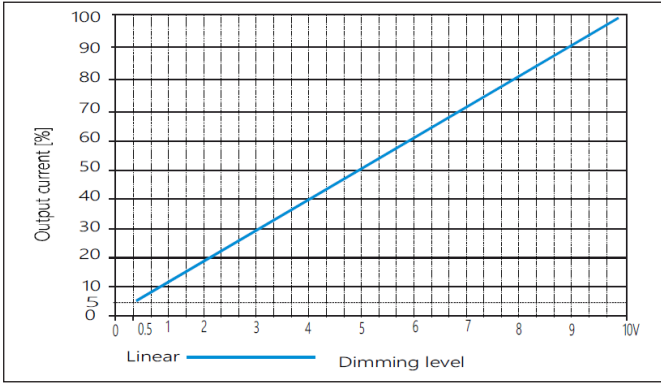


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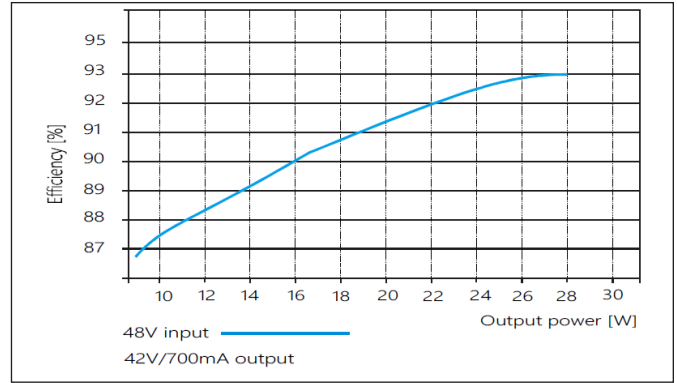
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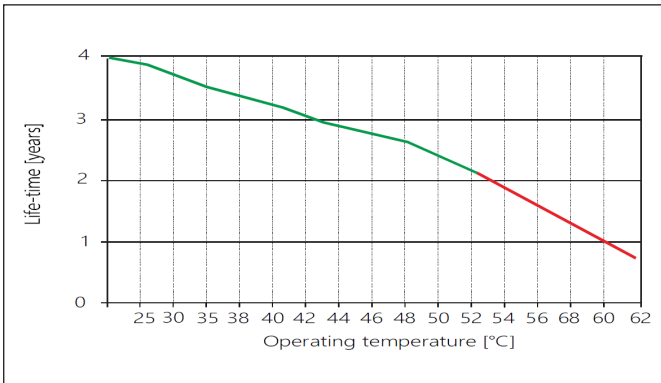
LUM DIMMING



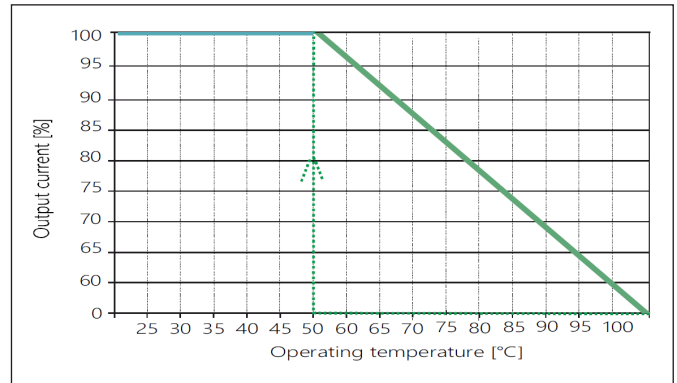
EFFICIENCY VS LOAD



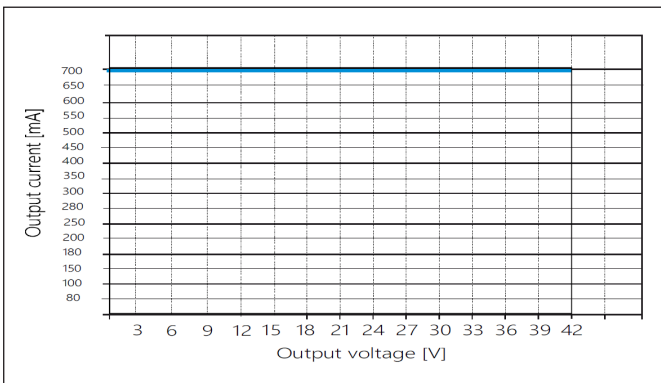
LIFE-TIME



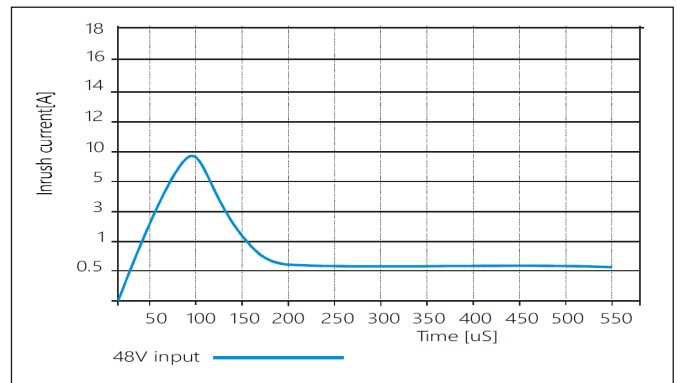
OVER TEMPERATURE DE-RATING



OUTPUT POWER LIMIT



INRUSH CURRENT



DIMENSION INFORMATION:

PCBA Length: 125mm
 PCBA Width: 14.5mm
 PCBA Height: 10mm
 Weight: 18g

