



## L80 IP68 6W - MDD3 LVDC

PREMIUM indoor LED driver with three dimming protocol from 0/1-10V, Phase and resistor. Configurable output up to 6 Watts. Eye response dimming curve with deep & smooth down to 5%. Smooth ON/OFF.

#### PRODUCT FEATURES

- Multiple Dimming (0/1-10V, Phase and Resistor)
- 6 Watts
- Perfect Dimming to 1%
- Smooth On/Off
- Eye response dimming
- High Power factor (>0.95)
- MTBF >100K hours
- IP68

#### **FUNCTIONS**

- Configurable Output Power
- Overload protection
- Short-circuit protection
- No-load protection
- Internal Thermal Protection
- LED engine NTC thermal protection
- Hot-pluggable

## TECHNOLOGY BENEFITS

- Multiple dimming protocol and multiple power selection, execellent inventory management
- NTC thermal fold back algorithm protects LED array, COBs from over-temperature while providing regulated reduced light output.
- Our driver allow eight power settings using selectable switch. At each setting, the constant current will be regulated automatically to match the LED Vf strings, make it versatile to driver COB package or a multiple discrete LED arrays at the rated power.

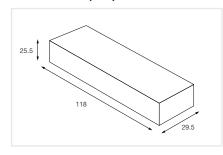
For e.g. a 8 Watts driver with 2 different Vf setup:

- 8W COB with 36V forward voltage, Currrent will be 0.22 A
- 8W LED strings with 28V forward voltage, Current will be 0.29 A
- Single driver model to cover output power level from 4.5 Watts to 10 Watts, and cover from forward voltage range of 26 to 40V.

## APPLICATION

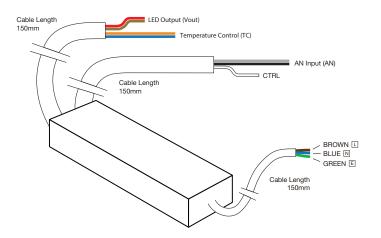
 For linear, track light, down light and custom made lighting for indoor retail, hospitality and outdoor applications

#### **DIMENSIONS (MM)**









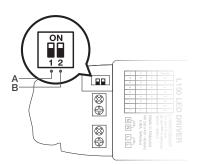
## INPUT/OUTPUT WIRES

Туре	Terminal Colour	Specification	Length	
Line	Brown	UL1015 AWG18	150mm	
Neutral	Blue	UL1015 AWG18	150mm	
Vout+	Red	Ul1569 AWG22	150mm	
Vout-	Brown	Ul1569 AWG22	150mm	
AN+	Grey	Ul1569 AWG22	150mm	
AN-	Black	Ul1569 AWG22	150mm	
TC+ Orange TC- Blue		Ul1569 AWG22	150mm	
		Ul1569 AWG22	150mm	

OPTION WITH HEATSHRINK PACKAGE FOR OPTIMUM SPACE. (ORDER WITH ADDITIONAL CODE "-HSK" and the output power) \* Output power are not selectable in Heatshrink version.

#### SLIDER SWITCH TABLE

	DIP Switch Setting		LED @20V	LED @18V	LED @15V	LED @12V	
A (1)	A (1) B (2) Power (W) Efficiency @ 230V		Current (mA)	Current (mA)	Current (mA)	Current (mA)	
0	0	4.5	73%	0.23	0.25	0.30	0.38
0	0 1 6.2 74%		0.31	0.34	0.41	0.52	
	Support LED Module					Cree XHP	



## MAXIMUM LOADING OF CIRCUIT BREAKERS

Automatic Circuit Breaker Type	B10	B13	B16	C10	C13	C16
Amount of LED drives	27	35	43	40	52	64



## DETAILS SPECIFICATIONS

	Rated supply Voltage	220-260 Vac		
	Input voltage AC	198-277 Vac		
	Input Current	0.06A @220Vac		
	Inrush Current	1.5A 350uS @ 230V/50Hz		
	Leakage Current	<0.23 mA @230Vac Full Load		
Input	Input No Load Power	<0.5 W		
	THD (at 230V, 50Hz)	<6.5%		
	Power factor	>0.95 @ 230Vac Full Load		
	Input Capacitance	~32nF		
	Mains frequency	50Hz/60Hz		
	LED Output Power	4W - 6W (Configurable)		
	Output Voltage	10V - 20V		
	Current Range	150mA - 500mA (Configurable)		
Output	Tolerance	+/- 5%		
	Ripple	<35%		
	Optical flicker %	<35%		
	Tum On Time	0.5s		
	Dimming Protocol	0/1-10V, Phase and resistor		
Control	0/1-10V Dimming Range	<1%-100%		
Control	PHASE Dimming Range	<1%-100% *Depend on dimmer		
	Resistor Dimming Range	<1%-100% with 1M ohm resistor		

	Over Load Protection	Yes		
Protection	Over Temperature Protection	Yes		
Protection	Short circuit Protection	Yes		
	Self Recover after Protection	Yes		
Thermal	External NTC thermistor	Throttle @ 80C		
protection	External thermistor value	47Kohm		
		EN 55015		
		EN 61547		
	Safety	EN 61000-3-2		
Standard & Certifications		EN 61000-3-3		
		EN 61347-1, EN 61347-2-13		
	EMC	CISPR15		
	RoHS	Yes		
Dimension	Weight	180g		
Dimension	LxWxH	L118 x W29.5 x H25.5mm		
	Ambient Temperature	-20°C - +50°C		
Environment	Working Humidity	0 - 95%		
	Storage Temp/Humidity	-20°C ~ +85°C, 0 ~ 85% RH		
Lifetime	>50,000 hours at Tc, 75°C			
Warranty Period	5 years			

## MODEL DATA

Туре	Rated Power	Output Forward Voltage ranges	Output Current ranges	Output Power ranges	
L80 IP68 MDD3 6W 10-20V CP LVDC	8.2W	10 - 20V	150mA - 500mA	4W - 6W	

Current ripple	Optical flicker %	Max. Tc, case temperature	Dimming options	Dimming ranges
>35%	>35% 75°C		0/1-10V, Phase, Resistor	<5% - 100%

# L80 IP68 6W - MDD3 LVDC

## ORDERING MATRIX CHART

L80 IP68 MDD3 6W 10-20V CP LVDC	L80M3V2836CP-LVDC (IP68)	50	31 X 22 X 15 CM	9 KG
Туре	Part number	Unit/carton	Dimension/carton	Weight/carton

example: L80M3V2836CP-LVDC (IP68).50