

M30 Series

40W Constant Voltage LED Driver with Triac Dimming



Features

- Input range from 108 to 132 VAC
- Constant Voltage design (C.V mode)
- For forward phase, magnetic low voltage and triac dimmers.
- Fully Potted suitable for dry and damp location applications.
- Protections : Over current / Short Circuit /Over Voltage/Over Temperature
- 3 years warranty.

Safety Approval



For M30X series only



For M30 series only



Specification

Model No.		LD040D-VA34012-M30	LD040D-VA17024-M30	LD040D-VA34012-M30X	LD040D-VA17024-M30X
Output	DC Voltage Range	12V	24V	12V	24V
	DC Current Max	0~3400mA	0~1700mA	0~3400mA	0~1700mA
	Rated Max. Power	40W	40W	40W	40W
	Dimming Range	5%-100%	5%-100%	5%-100%	5%-100%
	Voltage Tolerance	±5%	±5%	±5%	±5%
	Ripple & Noise (Max.) note.2	2.6 Vp-p	2.6 Vp-p	2.6 Vp-p	2.6 Vp-p
	Efficiency note.1 full load	>82%	>82%	>82%	>82%
	Set up Time (Max)	0.5S / 120Vac at full load			
Input	Rated Voltage	108 - 132VAC			
	Frequency Range	50/60Hz			
	AC Current (Max.)	0.66A at 120Vac			
	Power Factor	> 0.5 at 120Vac with full load.			
	Inrush Current (Max.)	≤ 30A at 120Vac			
	Leakage Current	< 1mA / 120Vac			
Protections	Over Voltage	105 % - 120 % Output voltage limiting, auto-recovery			
	Over Current	110% - 130% Constant current limiting, auto-recovery			
	Over Temperature	110°C - 120°C Temperature limiting, auto-recovery			
	Short Circuit	Hiccup mode, recovers automatically after fault condition is removed			
Environment	Operation Temp.	-10°C ~ 50°C (Refer to output load derating curve)			
	Operation Humidity	20% ~ 90% RH non-condensing.			
	Storage Temp.	-20°C ~ +80°C			
	Storage Humidity	10% ~ 90% RH			
Safety & EMC	Safety Standards	meet UL8750 refer UL1310			
	Withstand Voltage	I/P - O/P : 1.25K VAC			
	Isolation Resistance	I/P-O/P : 100M ohms / 500VDC at 25°C			
	EMC Standards note.3	meet FCC PART15 CLASSB			
Connection	Input	UL rated, 18 AWG x 2 C(150 mm)			
	Output	UL rated, 18 AWG x 2 C(150 mm) , (Vo+, Vo-)			
Others	MTBF	100K hours min. @Ta=25°C			
	Dimension (L*W*H)	107.5 * 43.5 * 32 mm (M30 only) 303 * 62 * 39 mm (M30X only)			
	Packing (L*W*H) / Carton	31.7 * 29 * 23.5 CM; 50pcs/13.20kg (M30 only); 34 * 36 * 20 CM; 15pcs/12.0kg (M30X only)			
Note	1. All parameters NOT specially mentioned are measured at 120V/60HZ AC input, rated load and 25°C ambient temperature. 2. Ripple & Noise are measured at 20MHZ bandwidth oscilloscope and with 0.1uf & 47uf parallel capacitor. 3. The power supply is considered a component which will be installed a final equipment. The final equipment must be re - confirmed that it still meets EMC directives.				