

M28-Series



24W Constant Voltage LED Driver with Phase Cut dimming



Features

- Input range from 108 to 132 VAC
- Constant Voltage design (C.V mode)
- Suitable for Trailing and Leading edge dimmers
- Fully Potted suitable for dry and damp location applications
- Protections: Over Current/Short Circuit/Over Voltage
- 3 years warranty

Safety Approval



Specification

Model No.		LD024D-VA20012-M28	LD024D-VA10024-M28
Output	DC Voltage	12V	24V
	Current Range	0~2000mA	0~1000mA
	Rated Power	24W	24W
	Voltage Tolerance	5%	5%
	Ripple & Noise (Max.) note.2	400mVp-p	500mVp-p
	Efficiency note .1	> 75%	> 80%
	dimming Range	5%-100%	5%-100%
	Setup Time	0.5S @ 120Vac & full load	
Input	Voltage Range	108 - 132VAC	
	Frequency Range	50/60Hz	
	AC Current (Max.)	0.4A @ 120Vac	
	Power Factor	> 0.5 @ 120Vac with full load.	
	Inrush Current (Max.)	≤ 45A @ 120Vac	
	Leakage Current	< 1mA / 120Vac	
Protections	Over Current	120% - 150% Output Hiccup mode, auto-recovery	
	Over Voltage	120% - 150% Output Hiccup mode, auto-recovery	
	Short Circuit	Hiccup mode, Recovers automatically after fault condition is removed	
Environment	Operating Temp.	-20°C ~ 50°C (Refer to output load derating curve)	
	Operating Humidity	20% ~ 90% RH non-condensing.	
	Storage Temp	-20°C ~ +80°C	
	Storage Temp & Humidity	10% ~ 90% RH	
Safety & EMC	Safety Standards	Meet UL8750 & UL1310	
	Withstand Voltage	I/P - O/P : 1.25KV AC	
	Isolation Resistance	I/P-O/P : 100M ohms / 500VDC @ 25°C	
	EMC Standards note.3	Meet FCC PART15	
Connection	Input	UL rated, 18 AWG X 2 C(150 mm+/-10mm)	
	Output	UL rated, 20 AWG X 2 C(150 mm+/-10mm) , (Vo+, Vo-)	
Others	MTBF	100K hours min. @Ta=25°C	
	Dimension(L*W*H)	88.5 * 41.5 * 30.5 mm	
	Packing(L*W*H)/Carton	44.5*27.5*21 cm	

- 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 paralleled capacitor.
 3. The power supply is considered a component which will be installed a final equipment. The final equipment must be re-confirmed.