

M48E - series



48W AC-DC Constant Current LED Driver with ELV Dimming



Features

- Input range from 110 to 277 VAC, 50/60Hz
- AC phase-cut dimming at 120VAC
- Built-in active PFC Function
- Constant Current design (C .C mode)
- Compact, lightweight in plastic application
- Designed for indoor application
- Protections : Over current / Short Circuit
- 3 years warranty

Safety Approval



Specification

Model No.		LD048H-CU20024-M48E	LD048H-CU16030-M48E	LD048H-CU13336-M48E	LD048H-CU11442-M48E	LD048H-CU10048-M48E	LD048H-CU08854-M48E
Output	DC Voltage Range (VF)	15- 24 V	18-30 V	24-36 V	36-42 V	42-48 V	46-54 V
	Rated Current	2000 mA	1600 mA	1330 mA	1140 mA	1000 mA	880 Ma
	Current Tolerance	6%	6%	6%	6%	6%	6%
	Rated Max. Power	48 W	48 W	48 W	48 W	48 W	48 W
	Ripple & Noise (Max.) note.2	3.0 Vp-p	3.0 Vp-p	3.0 Vp-p	3.0 Vp-p	3.0 Vp-p	3.0 Vp-p
	Efficiency note.1	87%	88%	89%	90%	90%	90%
Input	Voltage & Frequency Range	110 - 277VAC ; 50hz/ 60 Hz					
	AC Current (Max.)	0.50A at 120Vac / 0.3A at 240Vac					
	Power Factor	> 0.95 at 240Vac with full load.					
	Inrush Current (Max.)	30A at 240Vac					
	Leakage Current	< 1mA / 240Vac					
Protections	Over Current	100% - 120% Constant current limiting, auto-recovery					
	Short Circuit	Hiccup mode, recovers automatically after fault condition is removed					
Environment	Working Temp.	-10°C ~ 40°C ambient operating at full load					
	Working Humidity	20% ~ 90% RH non-condensing.					
	Storage Temp., Humidity	-20°C ~ +80°C, 10% ~ 90% RH					
Safety & EMC	Safety Standards	meet UL8750 refer UL1310 EN61347-1, EN61347-2-13					
	EMC Standards note.3	meet FCC PART15 CLASSB EN55015, EN61000-4-2, 3, 4, 5, 6, 8, 11, EN61547					
	Withstand Voltage	I/P - O/P : 3.75K VAC					
	Isolation Resistance	I/P - O/P : 100M ohms / 500VDC at 25 °C					
Connection	Input	UL 1015 18 AWGx 2 C (150 mm)					
	Output	UL1015 18 AWGx 2 C (150 mm) , (Vo+, Vo-,)					
Others	MTBF	100K hours min. @Ta=25 °C					
	Dimension (L*W*H)	138 * 47 * 32 mm					
	Packing (L*W*H) / Carton	340 * 305 * 200 mm ; 50pcs / 19 Kg					
Note	1. All parameters NOT specially mentioned are measured at 230V 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.						