

M9 - series



9W AC-DC Constant Current LED Driver with TRIAC Dimming



Features

- Input range from 112 to 127 VAC
- AC phase-cut dimming at 120VAC
- Work with leading edge dimmers
- 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. | | LD009D-CU07512-M9 | LD009D-CU03724-M9 | LD009D-CU02536-M9 | LD009D-CU02242-M9 | LD009D-CU01948-M9 |
|--------------|---|---|-------------------|-------------------|-------------------|-------------------|
| Output | DC Voltage Range (VF) | 8 - 12 V | 16 - 24 V | 24 - 36 V | 36 - 42 V | 42 - 48 V |
| | Rated Current | 750 mA | 375 mA | 250 mA | 220 mA | 190 mA |
| | Current Tolerance | 7% | 7% | 7% | 7% | 7% |
| | Rated Max. Power | 9 W | 9 W | 9 W | 9 W | 9 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 |
| | Efficiency note.1 | 72% | 79% | 83% | 81% | 82% |
| Input | Voltage & Frequency Range | 112 - 127VAC ; 60 Hz | | | | |
| | AC Current (Max.) | 0.10A at 120Vac | | | | |
| | Power Factor | > 0.95 at 120Vac with full load. | | | | |
| | Inrush Current (Max.) | 30A at 120Vac | | | | |
| | Leakage Current | < 1mA / 120Vac | | | | |
| 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 rated, 20 AWG x 2 C (150 mm) | | | | |
| | Output | UL rated, 20 AWG x 2 C (150 mm), (Vo+, Vo-) | | | | |
| Others | MTBF | 100K hours min. @Ta=25 °C | | | | |
| | Dimension (L*W*H) | 70.5 * 34.5 * 25 mm | | | | |
| | Packing (L*W*H) / Carton | 380 * 270 * 180 mm ; 100pcs / 10.5 kg | | | | |
| Note | 1. All parameters NOT specially mentioned are measured at 120V 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. | | | | | |