



LDM60S SERIES

60 WATT SINGLE OUTPUT

AC-DC LED DRIVER



Features

- * Universal Input 90-305VAC
- * High Efficiency up to 90%
- * Meets EN55015, EN61000-3-2 Class C
- * Meets EN61347-1, EN61347-2-13
- * Meets UL8750
- * Dimming Input Range 1%~100%
- * Active PFC Function
- * IP67 Design for Indoor or Outdoor Installations (note7)
- * Max. Output power 60W
- * C.C+C.V Function
- * Dimming function: 1~10Vdc, PWM (note10) and Resistance or DALI (Optional)
- * Protections: Short Circuit, Over Current Over Voltage and Over Temperature
- * No Load Power Consumption < 0.75W (note11)
- * 3 Years Warranty



LDM60 Series

MODEL	Output Voltage	Output Current Note.6	Ripple (mV p-p) Note.1	Voltage Accuracy Note.2	Line Regulation Note.3	Load Regulation Note.4	Constant Current Region	Current Adj. Rang (Optional) Note.5	Voltage Adj. Rang (Optional) Note.5	%EFF. (Typ.) Note.8
LDM60S120	12V	5.00A	120mV	±1%	±1%	±2%	6.5V~12V	3A~5A	10.8V~13.2V	87%
LDM60S240	24V	2.50A	120mV	±1%	±1%	±2%	13V~24V	1.5A~2.5A	21.6V~26.4V	88%
LDM60S360	36V	1.67A	120mV	±1%	±1%	±2%	19V~36V	1.0A~1.67A	32.4V~39.6V	89%
LDM60S480	48V	1.25A	120mV	±1%	±1%	±2%	26V~48V	0.75A~1.25A	43.2V~52.8V	90%

Ordering information

Model No.

LDM60SXXX

CODE: xx

01: Constant Current Mode (IP67)

- No dimming
- No adjustment for output voltage and output current

02: Constant Current Mode (IP65)

- No dimming
- With adjustment for output voltage and output current

03: Constant Current Mode (IP67)

- Dimming: 1~10Vdc or PWM and Resistance
- No adjustment for output voltage and output current

03A: Constant Current Mode (IP65)

- Dimming: 1~10Vdc or PWM and Resistance
- With adjustment for output voltage and output current

04: Constant Current Mode (IP67)

- Dimming: DALI
- No adjustment for output voltage and output current

04A: Constant Current Mode (IP65)

- Dimming: DALI
- With adjustment for output voltage and output current

Specifications

INPUT SPECIFICATIONS:

Voltage 90~305Vac or 127~420Vdc
 Frequency 47 to 63Hz
 Inrush Current60A max. @240Vac, Cold Start @25°C
 Conducted EMI CISPR/FCC Class B
 Power FactorPF> = 0.9
 Leakage Current.....1mA max.
 Input Current.....0.6A typ. @110Vac ,Pout=59W
0.31A typ. @230Vac ,Pout=59W

OUTPUT SPECIFICATIONS:

Holdup Time 16ms typ. @115Vac
 Short Circuit ProtectionHiccup Mode (Auto Recover)
 Temperature Coefficient ±0.05% / °C
 Over Voltage ProtectionTVS Component to Clamp
 Over current Limit.....constant current mode (note 9)
 Over Temperature Protection.....110°C typ
 Altitude.....2000 m
 Startup time.....2.5s typ.
 Rise time.....50ms typ.
 MTBF..... MIL-HDBK-217F, GB, at 25°C /115VAC...150Khrs typ.
 Life time.....40000Hrs max,@ 25°C
 Vibration.....15~2000Hz 4G period for 60min,each along X Y Z axes

SAFETY AND EMC :

Emission and ImmunityEN55015 ,CISPR22
 EN61547, EN61000-3-2, EN61000-3-3
 Isolation Voltage.....I/P-O/P 3750VAC
 Surge.....4KV
 Safety.....UL8750, EN61347-1,EN61347-2-13
 Harmonic Current..... EN61000-3-2 Class C (>60% load)
 Isolation Resistance.....100MΩ min.

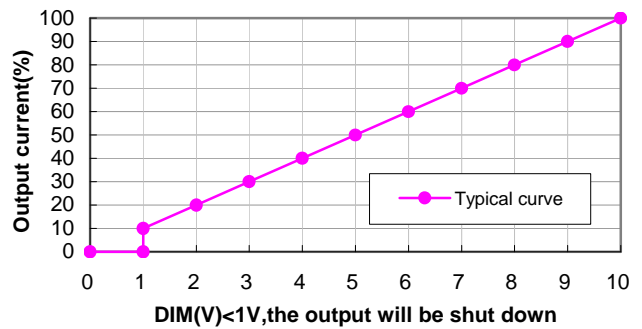
GENERAL SPECIFICATIONS:

Operating Temperature-40 ~ 70°C (see Derating Curve)
 Storage Temperature -40~85°C
 CoolingNatural Convection

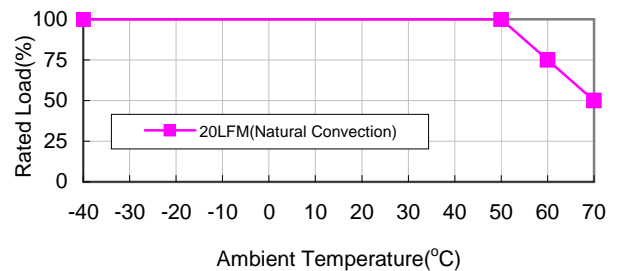
MECHANICAL CHARACTERISTICS:

Dimensions 1.5748x8.149x1.1023 Inches (40x207x28mm)
 Weight454g typ.

1~10V Dimming function for output current curve:



Derating curve:

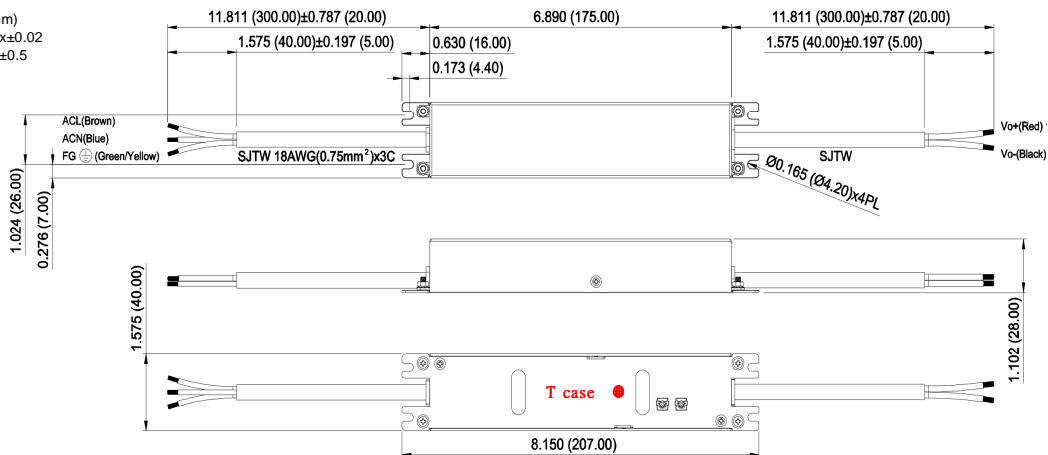


NOTE:

1. Add a 0.1uF ceramic capacitor and a 10uF E.L. capacitor to output for Ripple, Noise measuring @20MHz BW and 95% rated current.
2. Voltage accuracy is set of 90% rated current.
3. Line regulation is measured from High Line to Low Line with 90% Rated current.
4. Load regulation is measured from 90% to 10% Rated current.
5. Can be adjusted by internal potentiometer.
6. Output Constant Current Accuracy ±5%
7. IP67 for model: LDM60SXXX-01, LDM60SXXX-03, LDM60SXXX-04
IP65 for model: LDM60SXXX-02, LDM60SXXX-03A, LDM60SXXX-04A
8. Efficiency is measured 95% rated power at Vin=230VAC.
9. Less than 50% (Typ.) of the rated output voltage will enter hiccup mode.
10. PWM function is signal reception, Non-Output PWM signal.
11. No load power consumption < 0.75W for LDM60SXXX-01, -02
No load power consumption < 1.5W for LDM60SXXX-03, -03A, -04, -04A
Stand by power consumption < 1.0W for LDM60SXXX-03, -03A, -04, -04A

Mechanical Specification

All Dimensions in Inches(mm)
 Tolerance Inches: x.xxx±0.02
 Millimeters: x.xx±0.5



* T case: Max. Case Temperature

Typical at 25°C, nominal line and 75% load, unless otherwise Specified

Mouser Electronics

Authorized Distributor

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Cincon:

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[LDM60S240-03A](#) [LDM60S120-02](#) [LDM60S120-04](#) [LDM60S360-03A](#) [LDM60S360-01](#) [LDM60S120-01](#) [LDM60S480-](#)
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