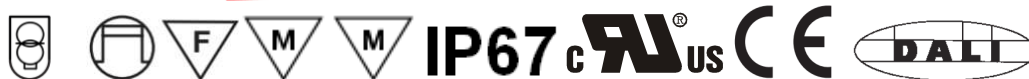




LDM100S SERIES

100 WATT SINGLE OUTPUT

AC-DC LED DRIVER



Features

- * Universal Input 90-305Vac or 127~420Vdc
- * 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 100W
- * 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 < 0.5W (note11)
- * 3 years warranty



LDM100 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
LDM100S120	12V	8.34A	120mV	±1%	±1%	±2%	6.5V~12V	5.3A~8.34A	10.8V~13.2V	88%
LDM100S240	24V	4.17A	120mV	±1%	±1%	±2%	13V~24V	2.6A~4.17A	21.6V~26.4V	89%
LDM100S360	36V	2.78A	120mV	±1%	±1%	±2%	19V~36V	1.74A~2.78A	32.4V~39.6V	90%
LDM100S480	48V	2.08A	120mV	±1%	±1%	±2%	26V~48V	1.3A~2.08A	43.2V~52.8V	90%

Ordering information

Model No.

LDM100SXXX

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 Current	75A max. @240Vac, Cold Start @25°C
Conducted EMI	CISPR/FCC Class B
Power Factor	PF> = 0.9
Leakage Current.....	1mA max.
Input Current.....	1.1A typ. @110Vac ,Pout=99W
	0.55A typ. @230Vac ,Pout=99W.

OUTPUT SPECIFICATIONS:

Holdup Time	16ms typ. @115Vac
Short Circuit Protection	Hiccup Mode (Auto Recover)
Temperature Coefficient	±0.05% / °C
Over Voltage Protection	TVS 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...160KHrs 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.....100M Ω min

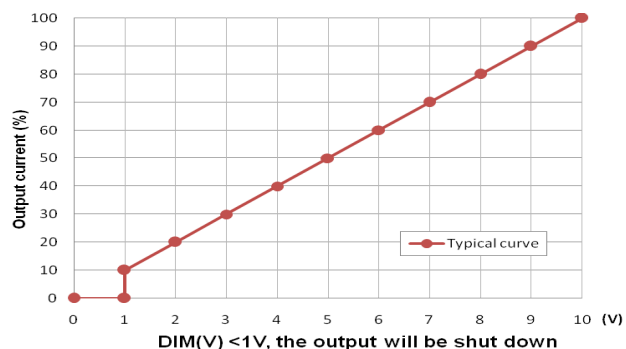
GENERAL SPECIFICATIONS:

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

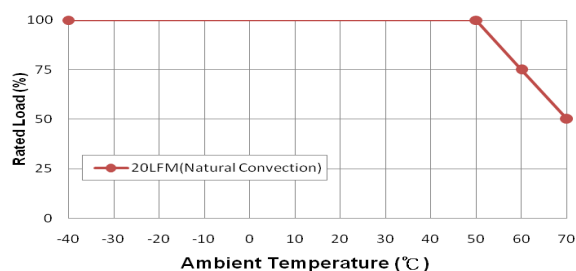
MECHANICAL CHARACTERISTICS:

Dimensions 1.5748x9.1338x1.1023inches (40x232x28mm)
Weight 504g typ.

1~10V Dimming function for output current curve:



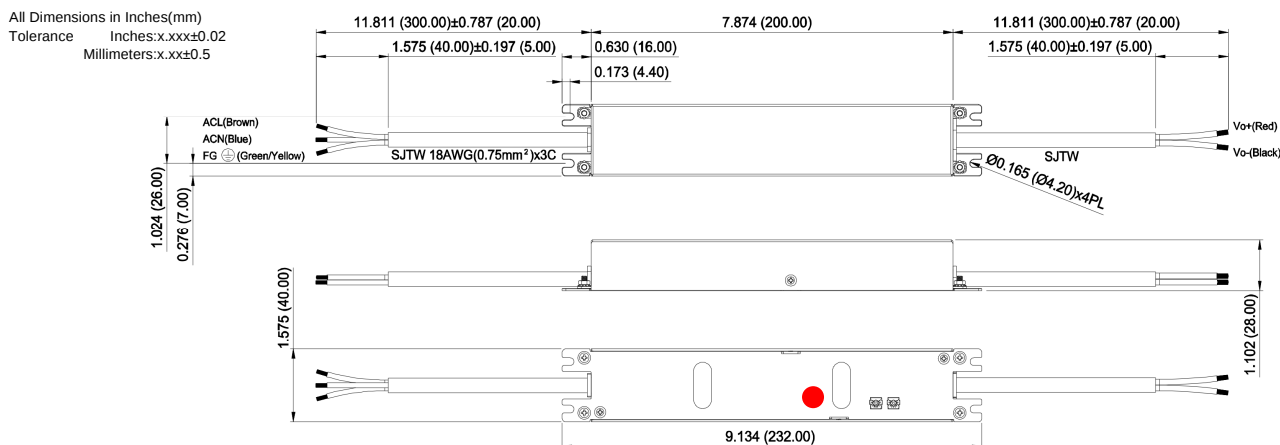
Derating curve:



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 $\pm 5\%$
7. IP67 for model: LDM100SXXX-01, LDM100SXXX-03, LDM100SXXX-04
IP65 for model: LDM100sXXX-02, LDM100SXXX-03A, LDM100SXXX-04A
8. Efficiency is measured 95% rated power at $V_{in}=230VAC$.
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 $< 0.5W$ for LDM100SXXX-01, -02
No load power consumption $< 1.5W$ for LDM100SXXX-03, -03A, -04, -04A
Stand by power consumption $< 1.0W$ for LDM100SXXX-03, -03A, -04, -04A

Mechanical Specification



TC

* 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:

[LDM100S240-04A](#) [LDM100S480-01](#) [LDM100S120-02](#) [LDM100S360-03](#) [LDM100S480-04A](#) [LDM100S360-04A](#)
[LDM100S360-02](#) [LDM100S360-04](#) [LDM100S240-03A](#) [LDM100S240-04](#) [LDM100S360-03A](#) [LDM100S480-02](#)
[LDM100S240-01](#) [LDM100S240-03](#) [LDM100S240-02](#) [LDM100S120-04](#) [LDM100S480-03](#) [LDM100S360-01](#)
[LDM100S120-01](#) [LDM100S120-03](#) [LDM100S120-03A](#) [LDM100S120-04A](#) [LDM100S480-04](#) [LDM100S480-03A](#)