



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
- * Active PFC Function
- * IP67 Design for Indoor or Outdoor Installations (note7)
- * Max. Output power 100W
- * Dimming function: Digital (Optional)
- * Protections: Short circuit, Over Current Over Voltage and Over Temperature
- * Constant Voltage and Constant Current
- * No Load Power Consumption<0.5W (note10)
- * 3 Years Warranty

LDM100S SERIES

100 WATT SINGLE OUTPUT

AC-DC LED DRIVER



章 節	LED-11
頁 次	1-1

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. Optional type

LDM100SXXX -XX

Optional type:

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 and Resistance

No adjustment for output voltage and output current

03A: Constant Current Mode (IP65)

Dimming:1~10Vdc and Resistance

With adjustment for output voltage and output current

04: Constant Current Mode (IP67)

Dimming: Digital meets IEC62386 part 102,207 ver.1

No adjustment for output voltage and output current

04A: Constant Current Mode (IP65)

Dimming: Digital meets IEC62386 part 102,207 ver.1

With adjustment for output voltage and output current

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	0.75mA max. @277Vac
Input Current	1.1A typ. @110Vac, Pout=99W
	0.55A typ. @230Vac, Pout=99W

Holdup Time	16ms typ. @115V _{ac}
Short Circuit Protection	Hiccup Mode (Auto Recover)
Temperature Coefficient	±0.05%/°C

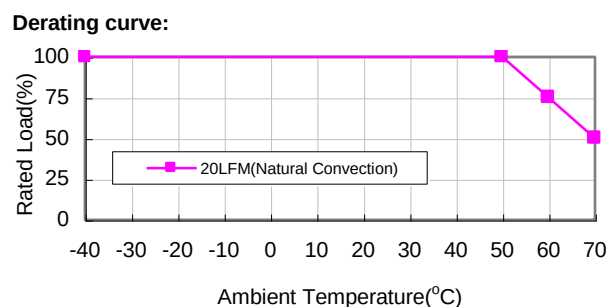
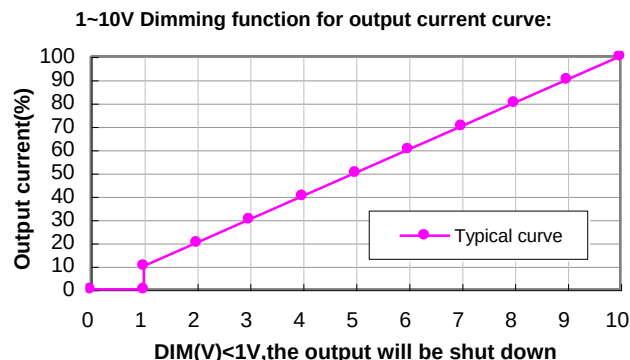
Over Voltage Protection	TVS Component to Clamp
Over Current Limit	Constant Current Mode (note 9)
Over Temperature Protection	110°C typ.
Altitude	2000m
Startup Time (note11)	0.5s max.
Rise Time	50ms typ.
MTBF.....	MIL-HDBK-217F, GB, at 25°C /115VAC...160Khrs typ.
Life Time	40000 Hours min. @Full Load, 25°C
Vibration	15~2000Hz 4G period for 60min, each along X Y Z axes

Emission and Immunity	EN55015, CISPR22 EN61547, EN61000-3-2, EN61000-3-3
Surge	4KV

Safety.....UL8750, EN61347-1, EN61347-2-13
Harmonic Current EN61000-3-2 Class C (>60% Load)

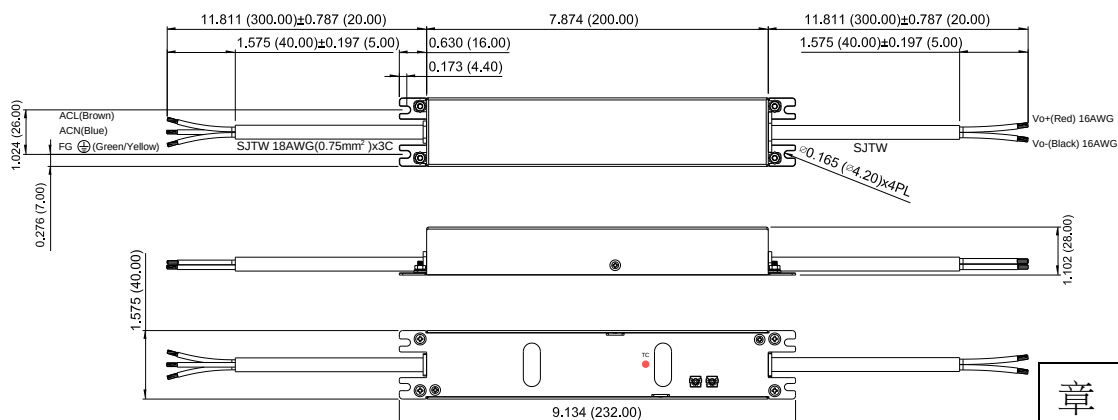
Isolation Voltage	I/P-O/P 3750VAC
Isolation Resistance	100MΩ min.
Operating Temperature	-40 ~ 70°C(See Derating Curve)
Storage Temperature	-40~85°C
Cooling	Natural Convection

Dimensions 9.134x1.575x1.102Inches (232.00x40.00x28.00mm)
Weight 504g typ.



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. Line regulation 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. IP67f or 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. 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 $< 0.5W$ for LDM100SXXX-03, -03A, -04, -04A
11. Start up interval must be greater than 3 seconds.

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



* TC: Max Case Temperature

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

章 節	LED-11
頁 次	1-2