

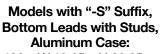
VLM60

60 & 40 W, Efficient, Compact Non-Dimmable CV Class 2 / Class II LED Drivers

Nominal Input Voltage	Max. Output Power	Nominal Output Voltage	Max. Output Current	Efficiency	Max. Case Temperature	THD	Power Factor
120 & 277 Vac, 220 to 240 Vac	60 W	12, 24, 48 Vdc	5, 2.5, 1.25 A	up to 90% typical	90°C (measured at the hot spot)	< 20%	> 0.9

Models with Flying Leads, **Aluminum Case (VLMXXW Models):**

L 130.0 x W 19.65 x H 19.8 mm (L 5.12 x W 0.77 x H 0.78 in) VLMXXE dimensions on page 14



L 130 x W 19.65 x H 23.85 mm (L 5.12 x W 0.77 x H 0.94 in)





Typical Application Diagram

Neutral: White LEDs +: Red: (Blue) VLM60 Line: Black **Series** LEDs -: Blue (Brown) (): Wire Color for VLMXXE models (220-240 Vac)

Wiring Diagram

TYPICAL APPLICATIONS

Models with "-T" Suffix (Terminal Blocks), **Aluminum Case:**

> L 183.2 x W 19.9 x H 19.85 mm (L 7.12 x W 0.78 x H 0.78 in)

FEATURES

- Very high power density of 20 W/in³
- Class 2 power supply
- Class II power supply per IEC 61347
- IP20-rated case with silicone-based potting
- 90°C maximum case hot spot temperature
- Complies with ENERGY STAR®, DLC (DesignLight Consortium®) and CA Title 24 technical requirements
- Lifetime: 50,000 hours min at 70°C case temperature
- Worldwide safety approvals SELV Class 2 RoHS
- · Additional safety approvals when using the optional strain reliefs for models with "-T" suffix











Strip lights

Cove Lights

Pendants

Linears

Note: The VLM series is a dedicated constant voltage LED driver. Some alternative loads may have large input capacitance or other drive current demands not compatible for use with the VLM series. The performance of the VLM series must be tested and qualified thoroughly when being used to drive alternative electronic circuit loads other than LED loads. The VLM series drivers are designed and characterized to be compatible with Lumenetix brand light engines.



VLM60 60 W VLM40 40 W

60 & 40 W, Efficient, Compact Non-Dimmable CV Class 2 / Class II LED Drivers

■ 1 - ORDERING INFORMATION

	ERP Part Number	Nominal Input Voltage (Vac)	Pout Max (W)	Vout Nom (Vdc)	lout Min (A)	lout Max (A)	Open Loop Voltage (No Load Vout Max) (Vdc)	Comments	Safety, EMC Compliance
							VLM40W		
5	VLM40W-12	120 & 277	40	12	0.1	3.3	12.84	Aluminum case with flying leads	UL, cUL, FCC
불	VLM40W-24	120 & 277	40	24	0.05	1.67	25.68	Aluminum case with flying leads	UL, cUL, FCC
	VLM40W-48	120 & 277	40	48	0.025	0.83	51.36	Aluminum case with flying leads	UL, cUL, FCC
₫	VLM40W-12-S	120 & 277	40	12	0.1	3.3	12.84	Aluminum case with bottom leads and studs	UL, cUL, FCC
	VLM40W-24-S	120 & 277	40	24	0.05	1.67	25.68	Aluminum case with bottom leads and studs	UL, cUL, FCC
VAC NOMINAL INPUT	VLM40W-48-S	120 & 277	40	48	0.025	0.83	51.36	Aluminum case with bottom leads and studs	UL, cUL, FCC
Ž							VLM60W		
S	VLM60W-12	120 & 277	60	12	0.1	5	12.84	Aluminum case with flying leads	UL, cUL, FCC
	VLM60W-24	120 & 277	60	24	0.05	2.5	25.68	Aluminum case with flying leads	UL, cUL, FCC
277	VLM60W-36	120 & 277	60	36	0.033	1.67	38.52	Aluminum case with flying leads	UL, cUL, FCC
	VLM60W-48	120 & 277	60	48	0.025	1.25	51.36	Aluminum case with flying leads	UL, cUL, FCC
∞	VLM60W-12-S	120 & 277	60	12	0.1	5	12.84	Aluminum case with bottom leads and studs	UL, cUL, FCC
120	VLM60W-24-S	120 & 277	60	24	0.05	2.5	25.68	Aluminum case with bottom leads and studs	UL, cUL, FCC
· ·	VLM60W-48-S	120 & 277	60	48	0.025	1.25	51.36	Aluminum case with bottom leads and studs	UL, cUL, FCC
							VLM40E		
△ ⊢	VLM40E-12-T	220 to 240	40	12	0.1	3.3	12.84	Aluminum case with terminal blocks	CB, ENEC,CE
T \ A \ D	VLM40E-24-T	220 to 240	40	24	0.05	1.67	25.68	Aluminum case with terminal blocks	CB, ENEC,CE
240 VAC AL INPUT	VLM40E-48-T	220 to 240	40	48	0.025	0.83	51.36	Aluminum case with terminal blocks	CB, ENEC,CE
240 L							VLM60E		
to S	VLM60E-24	220 to 240	60	24	0.05	2.5	25.68	Aluminum case with flying leads	CB, ENEC,CE
	VLM60E-48	220 to 240	60	48	0.025	1.25	51.36	Aluminum case with flying leads	CB, ENEC,CE
220 VOM	VLM60E-12-T	220 to 240	60	12	0.1	5	12.84	Aluminum case with terminal blocks	CB, ENEC,CE
N Ž	VLM60E-24-T	220 to 240	60	24	0.05	2.5	25.68	Aluminum case with terminal blocks	CB, ENEC,CE
	VLM60E-48-T	220 to 240	60	48	0.025	1.25	51.36	Aluminum case with terminal blocks	CB, ENEC,CE

Notes:

^{1.} Strain reliefs for "-T" models are not included and can be ordered separately using part number SR1. Order quantity for SR1 is per strain relief, and 2 strain reliefs are needed for each driver.



VLM60/40 VLM60 60 W Series

VLM40 40 W

60 & 40 W, Efficient, Compact Non-Dimmable CV Class 2 / Class II LED Drivers

2 - INPUT SPECIFICATION (@25° C ambient temperature)

	Units	Minimum	Typical	Maximum	Notes
Input Voltage Range (Vin) - VLMXXW models	Vac	90	120 & 277	305	•The rated output voltage for each model is achieved at Vin≥105 Vac & at Vin≥249 Vac for VLMXXW models, and at Vin≥209 Vac for VLMXXE models.
- VLMXXE models		198	230	264	•At maximum load, as specified in section 1.
Input Frequency Range - VLMXXW models	Hz	47	60	63	
- VLMXXE models		47	50	53	
Input Current (lin)	Α			0.7 A @ 120 Vac 0.4 A @ 230 vac 0.3 A @ 277 Vac	
Max Units on a 16 A Circuit Breaker			(120 Vac), 71 (230 Vac), 88 (120 Vac), 48 (230 Vac), 59	,	The maximum number of units allowed per 16 A circuit breaker is based on worst-case conditions at 100% output.
Power Factor (PF)		0.9	> 0.9		•At nominal input voltage •From 100% to 60% of rated power
Inrush Current	Α		Meets NEMA-410 requir	ements	•At any point on the sine wave and 25°C
Leakage Current	μA			400 μA @ 120 Vac 700 μA @ 230 Vac 920 μA @ 277 Vac	Measured per IEC60950-1
Input Harmonics	С	omplies wi	th IEC61000-3-2 for Clas	s C equipment	
Total Harmonics Distortion (THD)				20%	•At nominal input voltage •From 100% to 60% of rated power •Complies with DLC (Design Light Consortium) technical requirements
Efficiency	%	-	up to 90%	-	Measured with nominal input voltage
Isolation The AC input to the main DC output is isolated.					

3 - MAIN OUTPUT SPECIFICATION (@25° C ambient temperature)

			,		'
	Units	Minimum	Typica	Maximum	Notes
Output Voltage (Vout)	Vdc		12, 24, 48		See ordering information for details
Output Current (lout)	А			12 Vdc: 5.0 A 24 Vdc: 2.5 A 48 Vdc: 1.25 A	The rated output voltage for each model is achieved at Vin≥105 Vac & at Vin≥249 Vac for VLMXXW models, and at Vin≥209 Vac for VLMXXE models.
Output Voltage Regulation	%	-5		5	At nominal AC line voltage Includes load and current set point variations.
Output Voltage Overshoot	%	-	-	10	The driver does not operate outside of the regulation requirements for more than 500 ms during power on with maximum load.
Ripple Voltage	≤ 5%	of rated	output v model	oltage for each	Measured at maximum load and nominal input voltage Calculated in accordance with the IES Lighting Handbook, 9th edition
Start-up Time ms 500		500	Measured from application of AC line voltage to 100% light output Complies with California Title 24 and ENERGY STAR® luminaire specification.		



VLM60/40 VLM60 60 W Series

VLM40 40 W

60 & 40 W, Efficient, Compact Non-Dimmable CV Class 2 / Class II LED Drivers

4 - ENVIRONMENTAL CONDITIONS

	Units	Minimum	Typical	Maximum	Notes	
Operating Ambient Temperature (Ta)	°C	-20		50	50°C is the non-derated temperature (Refer to section 7 "Output power de-rating at higher temperatures".	
Maximum Case Temperature (Tc)	°C			+90	Case temperature measured at the hot spot •tc (see label in page 13)	
Storage Temperature	°C	-40		+85		
Humidity	%	5	-	95	Non-condensing	
Cooling		Conve	ection cooled			
Acoustic Noise	dBA			22	Measured at a distance of 1 foot (30 cm)	
Mechanical Shock Protection	per EN	60068-2-27				
Vibration Protection	per EN60068-2-6 & EN60068-2-64					
MTBF	> 200,000 hours when operated at nominal inpu			ominal input	ut and output conditions, and at Tc ≤ 70°C	
Lifetime	50,000	hours at Tc ≤	70°C maximum	n case hot spo	ot temperature (see hot spot •tc on label in page 13)	

5 - FMC COMPLIANCE AND SAFETY APPROVALS

3 - EIVIC COIVI	5 - ENIC COMPLIANCE AND SAFETT APPROVALS						
		EMC	Compliance				
Conducted and	onducted and •VLMXXW models: Compliant with FCC CFR Title 47 Part 15 Class B at 120 Vac & Class A at 277 Vac						
Radiated EMI	•VLMXXE models: EN55015 (C	ISPR 15) compliant	at 220, 230, and 240 Vac				
Harmonic Current En	nissions	IEC61000-3-2	For Class C equipment				
Voltage Fluctuations	& Flicker	IEC61000-3-3					
	ESD (Electrostatic Discharge)	IEC61000-4-2	6 kV contact discharge, 8 kV air discharge, level 3				
	RF Electromagnetic Field Susceptibility	IEC61000-4-3	3 V/m, 80 - 1000 MHz, 80% modulated at a distance of 3 meters				
1	Electrical Fast Transient	IEC61000-4-4	± 2 kV on AC power port for 1 minute, ±1 kV on signal/control lines				
Immunity Compliance	Surge	IEC61000-4-5	± 2 kV line to line (differential mode) /± 2 kV line to common mode ground				
		ANSI/IEEE c62.4	1.1-2002 & c62.41.2-2002 category A, 2.5 kV ring wave				
	Conducted RF Disturbances	IEC61000-4-6	3V, 0.15-80 MHz, 80% modulated				
	Voltage Dips	IEC61000-4-11	>95% dip, 0.5 period; 30% dip, 25 periods; 95% reduction, 250 periods				
		Cofoty A	Reney Apprecials				

	Safety Agency Approvals
UL	VLMXXW models: UL8750 listed Class 2
cUL	VLMXXW models: CAN/CSA C22.2 No. 250.13-14 LED equipment for lighting applications
CE	VLMXXE models: IEC61347-2-13 electronic control gear for LED Modules & EN55015 (EMC compliance)
СВ	VLMXXE models
ENEC	VLMXXE models

	Safety							
	Units	Minimum	Typical	Maximum	Notes			
Hi Pot (High Potential) or Dielectric voltage-withstand - VLMXXW models	Vdc	2500			•Insulation between the input (AC line and Neutral) and the output •Tested at the RMS voltage equivalent of 1768 Vac			
- VLMXXE models		4242			•Tested at the RMS voltage equivalent of 3000 Vac •Meets class II reinforced/double insulation			



VLM60 VLM40

60 & 40 W, Efficient, Compact Non-Dimmable CV Class 2 / Class II LED Drivers

6 - PROTECTION FEATURES

Under-Voltage (Brownout)

The VLM60/40 series provides protection circuitry such that an application of an input voltage below the minimum stated in section 1 (Input Specification) shall not cause damage to the driver.

Short Circuit and Over Current Protection

The VLM60/40 series is protected against short-circuit such that a short from any output to return shall not result in a fire hazard or shock hazard. The driver shall hiccup as a result of a short circuit or over current fault. Removal of the fault will return the driver to within normal operation. The driver shall recover, with no damage, from a short across the output for an indefinite period of time.

Internal Over temperature Protection

The VLM60/40 is equipped with an internal temperature sensor on the primary power train. Failure to stay within the convection power rating will cause the driver to shut down. The main output current will be resumed when the temperature of the built-in temperature sensor cools adequately.

Output Open Load

A no load condition will not damage the VLM60/40 or cause a hazardous condition. The driver will remain stable and operate normally after application of a load. When the LED load is removed, the output voltage of the VLM60/40 series is limited to 7% about the output voltage of each model.

Over Power Protection

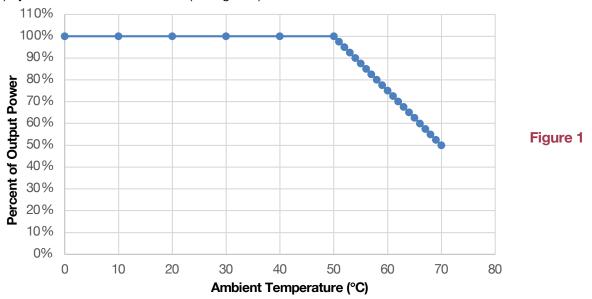
The VLM60/40 will shut down and auto recover when its input power exceeds approximately 110% of 96 W. This condition will cause no damage to the power supply.

Input Over Current Protection

The VLM60/40 series incorporates a primary AC line fuse for input over current protection.

7 - OUTPUT POWER DE-RATING AT ELEVATED TEMPERATURES

The VLM60/40 series can be operated with cooling air temperatures above 50°C by linearly de-rating the total maximum output power (or current) by 2.5%/°C from 50°C to 70°C (see figure 1).





VLM60 60 W VLM40 40 W

60 & 40 W, Efficient, Compact Non-Dimmable CV Class 2 / Class II LED Drivers

8 - PREDICTED LIFETIME VERSUS CASE AND AMBIENT TEMPERATURE

Lifetime is defined by the measurement of the temperatures of all the electrolytic capacitors whose failure would affect light output under the nominal LED load and worst case AC line voltage. The graphs in figures 2 and 3 are determined by the electrolytic capacitor with the shortest lifetime, among all electrolytic capacitors. It represents a worst case scenario in which the LED driver is powered 24 hours/day, 7 days/week. The lifetime of an electrolytic capacitor is measured when any of the following changes in performance are observed:

- 1) Capacitance changes more than 20% of initial value
- 3) Equivalent Series Resistance (ESR): 150% or less of initial specified value

VLM60W-24

- 2) Dissipation Factor (tan δ): 150% or less of initial specified value
- 4) Leakage current: less of initial specified value

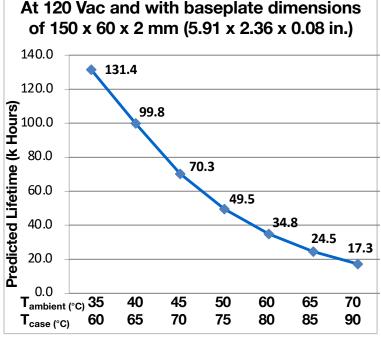


Figure 2 Figure 3

VLM60W-48 At 120 Vac and with baseplate dimensions of 150 x 60 x 2 mm (5.91 x 2.36 x 0.08 in.) 140.0 123.2

Predicted Lifetime (k Hours) 0.09 0.09 0.09 0.09 86.8 61.1 43.0 30.3 22.7 15.0 T_{ambient (°C)} 25 30 35 40 45 50 55 65 80 85 90 T_{case (°C)}

Notes:

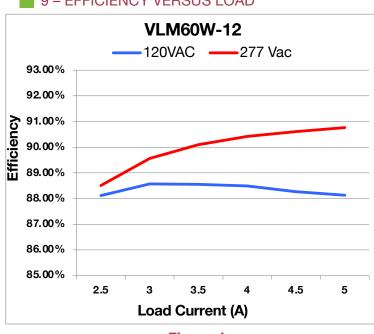
- The ambient temperature $T_{ambient}$ and the differential between $T_{ambient}$ and T_{case} mentioned in the above graphs are relevant only as long as both the driver and the light fixture are exposed to the same ambient room temperature. If the LED driver is housed in an enclosure or covered by insulation material, then the ambient room temperature is no longer valid. In this situation, please refer only to the case temperature T_{case} .
- It should be noted the graph "Lifetime vs. Ambient Temperature" may have an error induced in the final application if the mounting has restricted convection flow around the case. For applications where this is evident, the actual case temperature measured at the Tc point in the application should be used for reliability calculations.



VLM60 60 W VLM40 40 W

60 & 40 W, Efficient, Compact Non-Dimmable CV Class 2 / Class II LED Drivers

9 – EFFICIENCY VERSUS LOAD



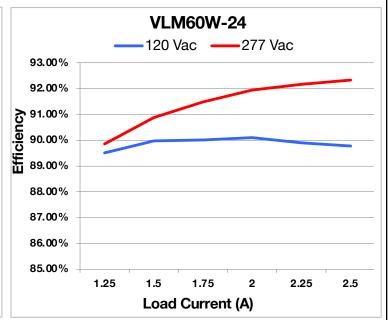


Figure 4

Figure 5

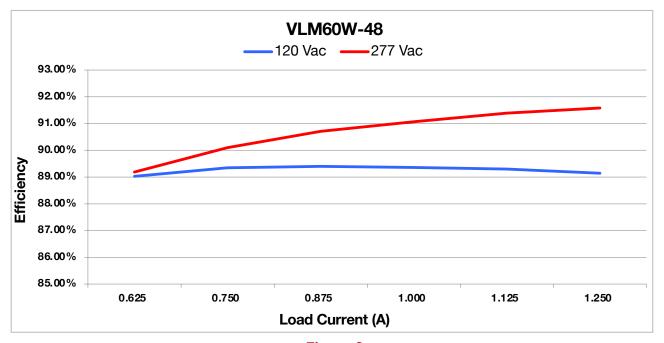


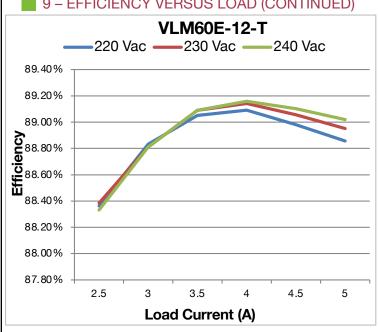
Figure 6



VLM60

60 & 40 W, Efficient, Compact Non-Dimmable CV Class 2 / Class II LED Drivers

9 - EFFICIENCY VERSUS LOAD (CONTINUED)



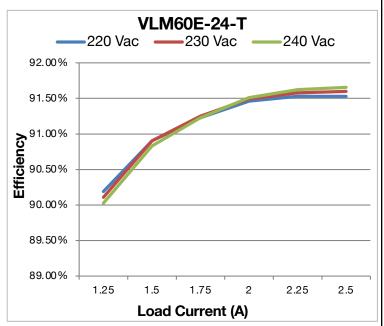


Figure 7

Figure 8

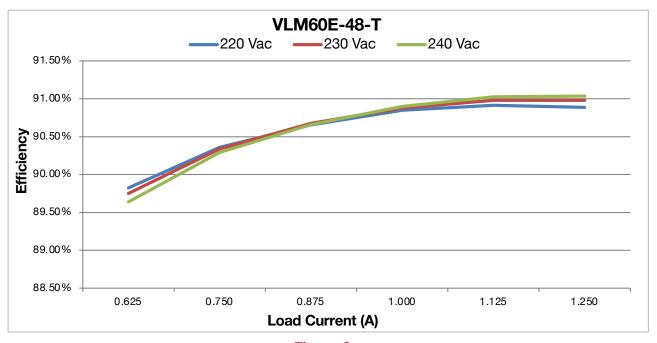


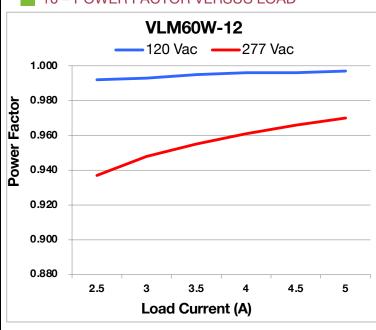
Figure 9



VLM60 60 W VLM40 40 W

60 & 40 W, Efficient, Compact Non-Dimmable CV Class 2 / Class II LED Drivers

10 – POWER FACTOR VERSUS LOAD



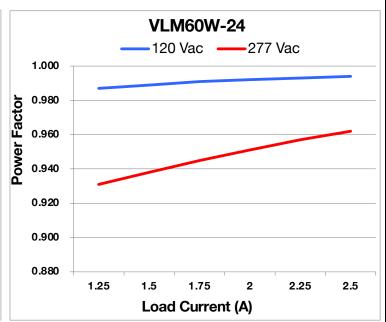


Figure 10

Figure 11

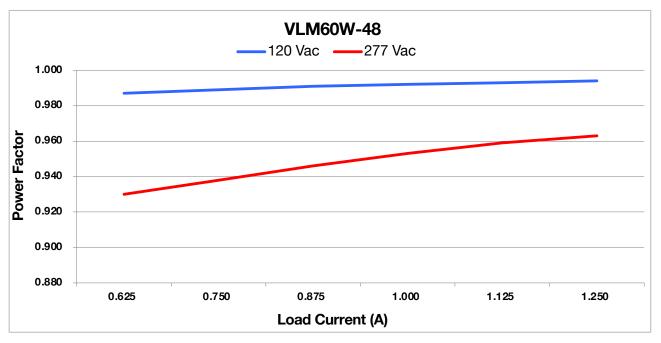


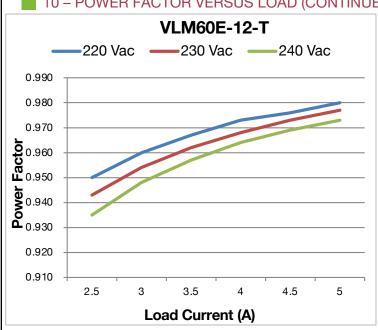
Figure 12



VLM60

60 & 40 W, Efficient, Compact Non-Dimmable CV Class 2 / Class II LED Drivers

10 – POWER FACTOR VERSUS LOAD (CONTINUED)



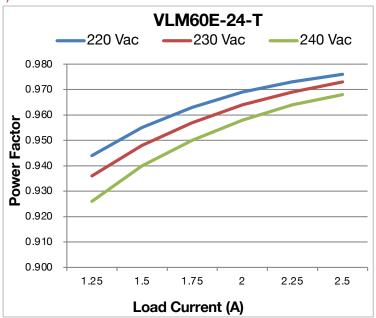


Figure 13

Figure 14

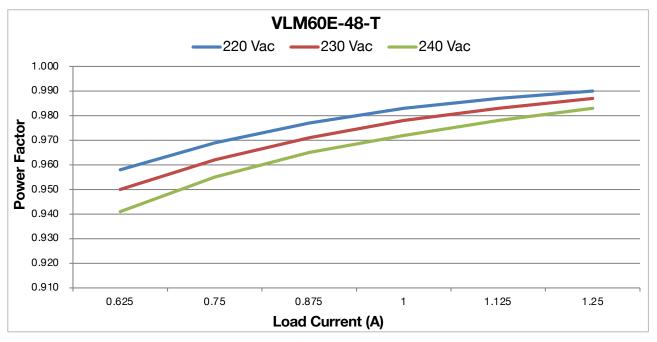


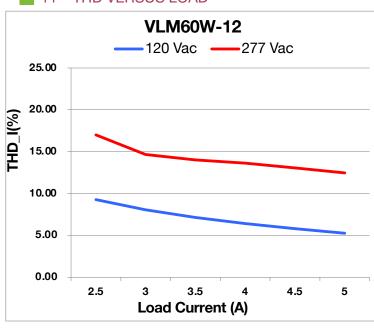
Figure 15



VLM60 60 W VLM40 40 W

60 & 40 W, Efficient, Compact Non-Dimmable CV Class 2 / Class II LED Drivers





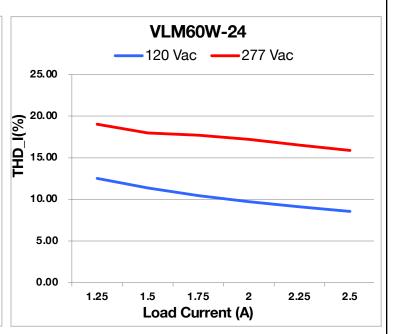


Figure 16

Figure 17

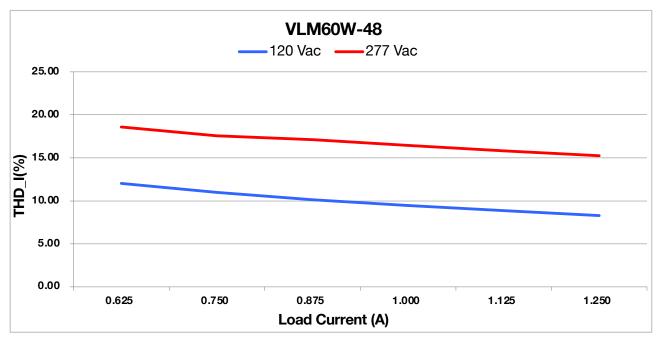


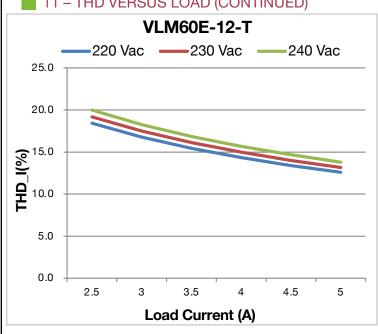
Figure 18



VLM60

60 & 40 W, Efficient, Compact Non-Dimmable CV Class 2 / Class II LED Drivers

11 – THD VERSUS LOAD (CONTINUED)



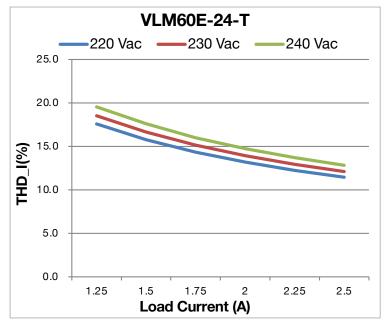


Figure 19

Figure 20

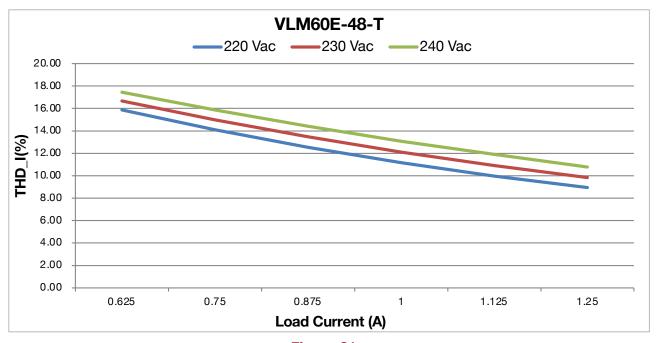


Figure 21



VLM60 60 W VLM40 40 W

60 & 40 W, Efficient, Compact Non-Dimmable CV Class 2 / Class II LED Drivers

■ 12 - MECHANICAL DETAILS

• Packaging Options: Aluminum case

I/O Connections:

• Models with flying leads: 18 AWG on all leads, 203mm (8 in) long, 105°C rated, stranded, stripped by approximately and with "S" suffix

9.5 mm, and tinned. All the wires, on both input and output, have a 300 V insulation rating.

• Models with "T" suffix: Terminal blocks

• Ingress Protection: IP20 rated

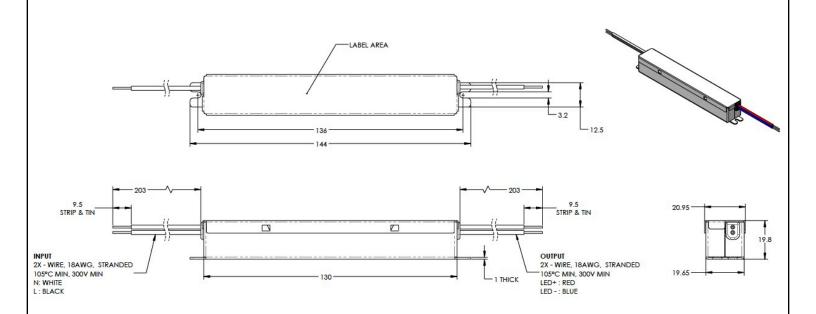
• Mounting Instructions: The VLM60/40 driver case must be secured on a flat surface through the two mounting

tabs, shown here below in the case outline drawings. We recommended mounting the VLM60/40 on a baseplate with dimensions of $150 \times 60 \times 2$ mm (5.91 x 2.36 x 0.08 in).

13 - OUTLINE DRAWINGS (VLMXXW MODELS WITH FLYING LEADS)

Dimensions: L 130.0 x W 19.65 x H 19.8 mm (L 5.12 x W 0.77 x H 0.78 in)

Weight: 119 g (4.20 oz)



All dimensions are in mm

Figure 22



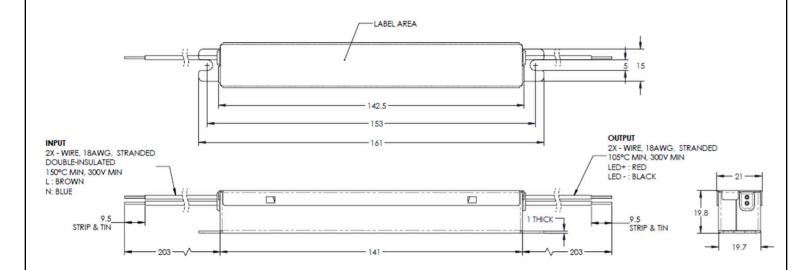
VLM60 60 W VLM40 40 W

60 & 40 W, Efficient, Compact Non-Dimmable CV Class 2 / Class II LED Drivers

14 - OUTLINE DRAWINGS (VLMXXE MODELS WITH FLYING LEADS)

Dimensions: L 141 x W 19.7 x H 19.8 mm (L 5.55 x W 0.78 x H 0.78 in)

Weight: 122 g (4.30 oz)



All dimensions are in mm

Figure 23



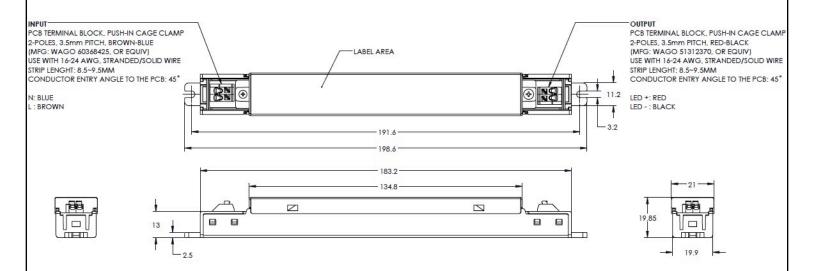
VLM60 60 W VLM40 40 W

60 & 40 W, Efficient, Compact Non-Dimmable CV Class 2 / Class II LED Drivers

15 - OUTLINE DRAWINGS (MODELS WITH "-T" SUFFIX: TERMINAL BLOCKS)

Dimensions: L 183.2 x W 19.9 x H 19.85 mm (L 8.03 x W 0.78 x H 0.78 in)

Weight: 127 g (4.48 oz)



All dimensions are in mm

Figure 24



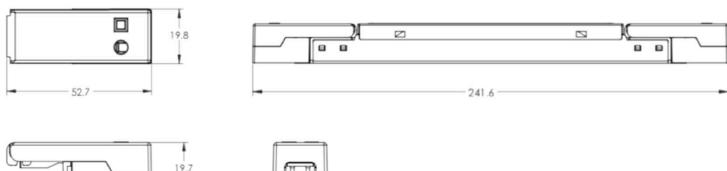
VLM60 60 W VLM40 40 W

60 & 40 W, Efficient, Compact Non-Dimmable CV Class 2 / Class II LED Drivers

■ 16 - OUTLINE DRAWINGS (MODELS WITH "-T" SUFFIX AND STRAIN RELIEFS)

Dimensions: L 241.6 x W 19.9 x H 19.85 mm (L 9.51 x W 0.78 x H 0.78 in)

TOTAL LENGTH AFTER ASSEMBLY (VLM40/60E-T SERIES)





All dimensions are in mm

Figure 25

Notes

- Strain reliefs for "-T" models are not included and can be ordered separately using part number SR1.
- Strain reliefs allow the driver to operate as independent control gear. This designation allows the
 driver to be mounted outside of the luminaire. Without strain reliefs the driver must be mounted
 inside the luminaire.
- 3. Order quantity for SR1 is per strain relief, and 2 strain reliefs are needed for each driver.
- Additional information regarding strain reliefs can be found under the accessories section on the ERP website.



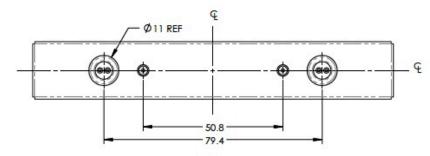
VLM60 60 W VLM40 40 W

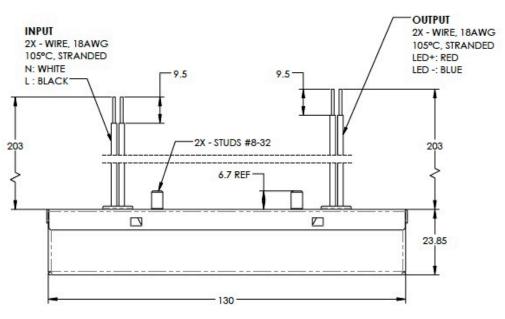
60 & 40 W, Efficient, Compact Non-Dimmable CV Class 2 / Class II LED Drivers

■ 17 - OUTLINE DRAWINGS (MODELS WITH "-S" SUFFIX: BOTTOM LEADS AND STUDS)

Dimensions: L 130 x W 19.65 x H 23.85 mm (L 5.12 x W 0.77 x H 0.94 in)

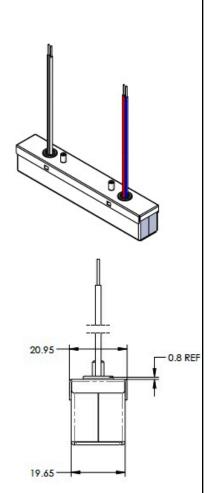
Weight: 142 g (5.01 oz)





All dimensions are in mm

Figure 26





VLM60 60 W VLM40 40 W

60 & 40 W, Efficient, Compact Non-Dimmable CV Class 2 / Class II LED Drivers

18 - LABELING

The VLM60W-24 and VLM60E-24-T are used in figure 27 as examples to illustrate typical labels.

ERP// MEDE 3	AC INPUT: 220-240 V~	Designed in the USA Manufactured in China	3 15		OUTPUT: Current 2.5 A ===	LED+
Max Case Temperature tc = 90°C Suitable for Dry or Damp Locations	L : BLACK N: WHITE		SE	LV	LED +: RED LED - : BLUE	
Constant Voltage LED Driver	60 Hz PF ≥ 0.9, THD ≤ 20%	6	E343	3741	Maximum Power Regulated Voltage	
EBB	AC INPUT: 120/277 V ~ 0.7 A	Designed in the USA Manufactured in China	(V	Dus	DC OUTPUT: Max Current 2.5 A	A ===

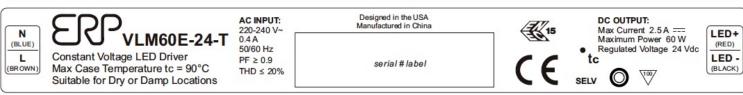


Figure 27

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VLM60 60 W VLM40 40 W

60 & 40 W, Efficient, Compact Non-Dimmable CV Class 2 / Class II LED Drivers

Revision History

Date	Comments
12FEB2019	 Pg1: changed render files to stamped case Added 3 pages, VLMXXE characterization curves Pg10-13: changed MCO to stamped case
20MAR2019	Pg2: added strain relief order infoPg15: added strain relief order info
09APR2019	Added euro flying leads MCO Added weights
29OCT2019	Pg2: added compliance column
09DEC2019	Pg2: removed models
10MAR2020	Pg18: updated label image
23APR2020	Pg2: added strain relief information Pg16: added additional strain relief information
30JUL2020	Pg1: added statement regarding VLM use Pg3: added max number of units per circuit breaker
21SEP2020	Various grammar changes
22APR2021	Pg2: added VLM60W-36

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