

60W 12V POWER SUPPLY WITH ENCLOSURE

This constant voltage Class 2 60W driver is UL and FCC listed. It is rated for wet, damp, and dry locations and has an enclosure with isolated wire connections. With input voltage ranging from 100-277 VAC, this driver is suited for commercial, industrial and residential applications.

- Constant voltage
- 100-277 VAC input voltage range
- Built-in PFC function
- Short circuit, over voltage and over heating protections
- PF > 0.99
- Efficiency > 88%
- Suitable for dry, damp and wet locations
- UL/cUL, FCC listed, Class 2, Class P, Type HL
- 7-year warranty



RoHS SELV

PRODUCT INFORMATION

Type	PS12-60W-100-277V-ENC-B
Rated Input Voltage	100-277 VAC
Rated Input Frequency	47-63 Hz
AC Input Current	0.93 A @ 120 VAC
Rated Output Power	12 VDC
Rated Power	60 W
Inrush Current	50 A
Output Current	5 A DC
Efficiency	> 85% @ 110 VAC, 100% load > 86% @ 277 VAC, 100% load
Typical Power Factor	0.98 @ 120 VAC 0.95 @ 277 VAC
Environment Rating	Dry, damp or wet locations
Ambient Temp.	-40 – 140° F (-40 – 60° C)
Storage Temp.	-40 – 176° F (-40 – 80° C)
Lifetime	50,000 hrs @ Tc 85 °C (60 °C ambient)
Dimensions (L x W x H)	7.4 x 3.72 x 1.57 in. (188 x 94.5 x 40 mm)
Net Weight	2.43 lb (1.1 kg)

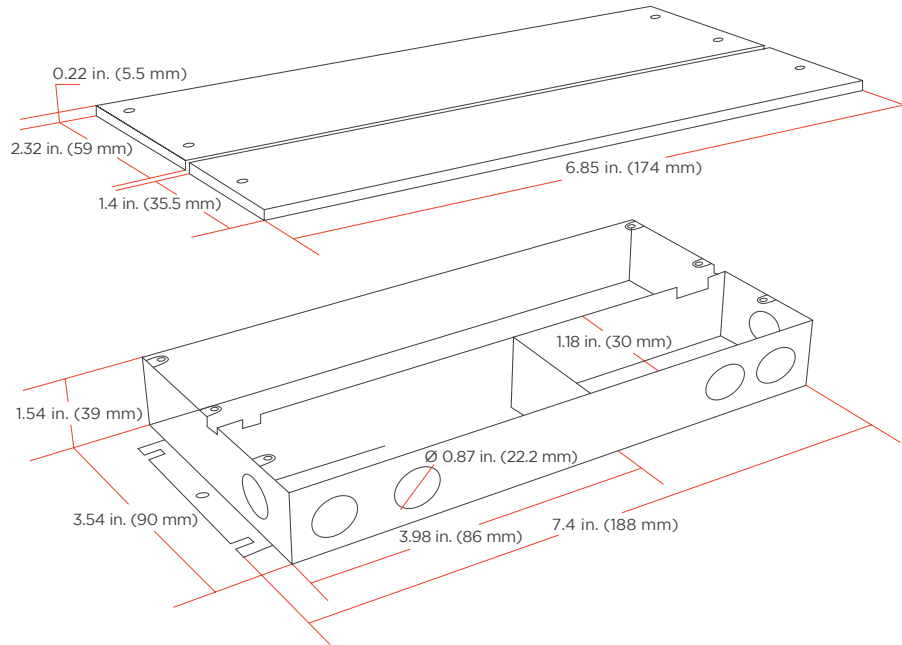
STANDARD COMPLIANCE

Safety	Safety Standards
UL / cUL	UL8750 + UL1310
EMC	
Withstand Voltage	I/P-O/P:2.2K VAC
Isolation Resistance	I/P-O/P: 100 MΩ/500 VDC/77 °F (25 °C)/70% RH
EMC Emission	FCC Part 15 B
EMC Immunity	
	EN55015 Compliant EN61000-4-2,3,4,5,6,8,11 EN61547 Alight industry level (surge 4KV)

DIMENSION DRAWINGS

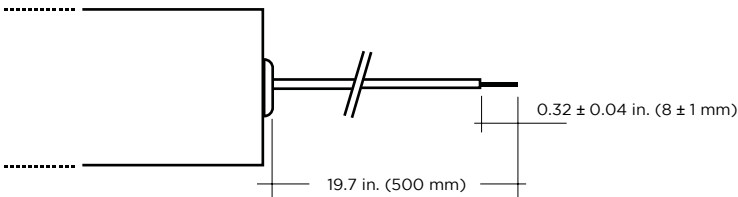
L x W x H

7.4 x 3.72 x 1.57 in.
(188 x 94.5 x 40 mm)



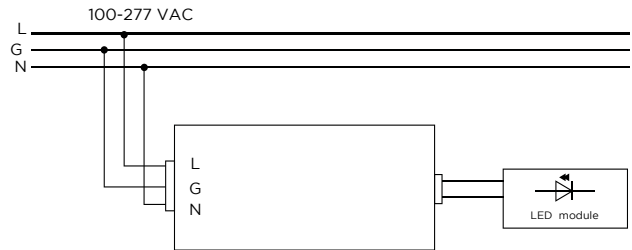
NOTE: To prevent exposure to the maximum allowable temperatures for these drivers, the suggested installation spacing between drivers is at least 4 in. (101.6 mm) side-to-side when the distance to the sidewall and top of the enclosure is 2 in. (50.8 mm). When the distance to the sidewall and top of the enclosure is 6 in. (152.4 mm), maintain at least 2 in. (50.8 mm) side-to-side spacing between drivers. Drivers should be placed at a minimum of 1 in. (25.4 mm) apart when arranging them end-to-end regardless of the enclosure size.

CONNECTION



Primary Cable			Secondary Cable	
L	N	PE	+	-
black	white	green	red	black

WIRING DIAGRAM



Installation instructions

The switching of LEDs on secondary side is not permitted. A proper functioning of the LCU in combination with third party dimming devices (e.g. PWM) cannot be guaranteed.

SHIPPING INFORMATION

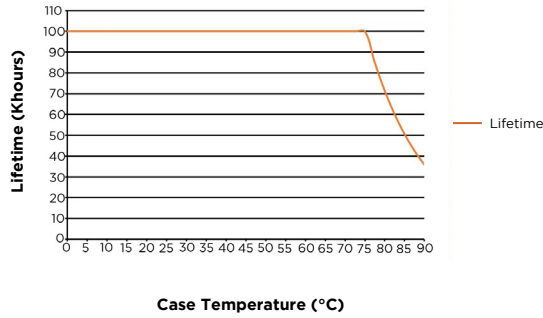
Module Type	Specs	Packaging Quantity	
		Per SKU	Per Case
PS12-60W-100-277V-ENC-B	# of Units	1	20

DRIVER REMOTE DISTANCES

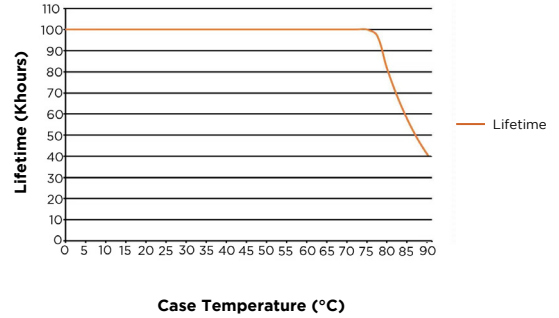
Wattages Wire Gauge	PS12-60W-100-277V-ENC-B	
	Feet	Meters
24 AWG / 0.20 mm ²	2.48	0.758
22 AWG / 0.33 mm ²	4.21	1.282
20 AWG / 0.52 mm ²	6.43	1.961
18 AWG / 0.82 mm ²	10.41	3.175
16 AWG / 1.31 mm ²	16.82	5.128
14 AWG / 2.08 mm ²	26.67	8.130
12 AWG / 3.31 mm ²	42.05	12.821
10 AWG / 5.26 mm ²	66.26	20.202
8 AWG / 8.37 mm ²	104.13	31.746

NOTE: Calculations include a standard 10% buffer

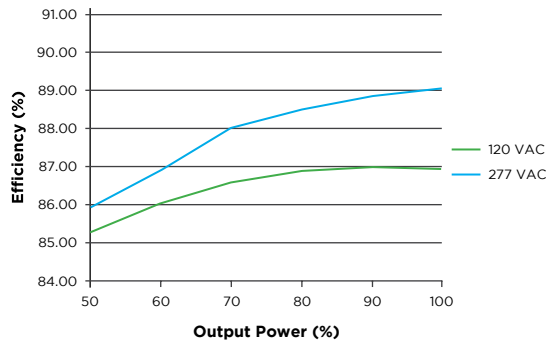
**Lifetime Vs. Case Temperature
 (120 VAC)**



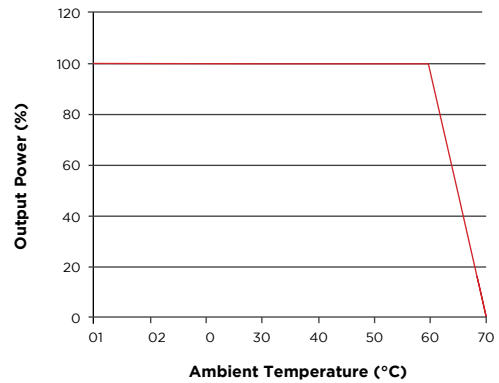
**Lifetime Vs. Case Temperature
 (277 VAC)**



Efficiency Vs. Output Power



Output Power Vs. Ambient Temperature



1. The maximum case temperature Tc shall not exceed 185 °F (85 °C) when used in end product.
2. These products are intended to be connected to a max. 20A branch circuit.
3. These products are intended for use in dry and damp locations.
4. Required spacing between power supply according to UL48.

REV.16.JAN2025

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