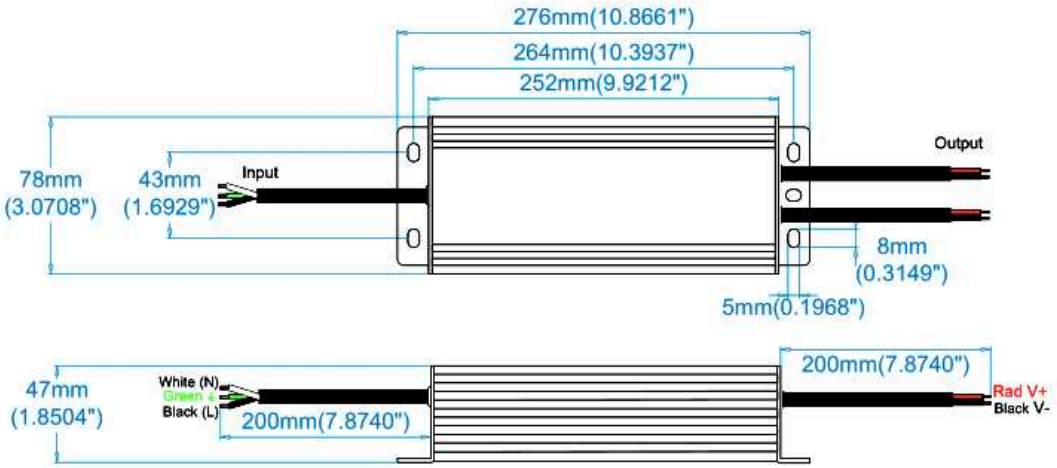
IP67 NON-DIM. POWERSUPPLY 300W

LCPSLCO-24V-300WIP67

7 YEARS WARRANTY



FEATURES

- Output constant voltage
- Input voltage range 100-277VAC
- UL, cUL listed, Class 2, Class P, Type HL rated
- Built-in PFC function, PF> 0.99, Efficiency > 92%
- Protections: short circuit / over load / over heat
- IP67 design for indoor or outdoor installations
- Full protection aluminum housing, for dry, damp and wet location
- Cooling by free air convection
- Strong compatibility
- Suitable for LED lighting and moving sign applications
- Compliance to worldwide safety regulations for lightings
- 7 years warranty

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TECHNICAL SPECIFICATIONS

Model		LCPSLCO-24V-300WIP67
Output	DC Voltage	24V
	Voltage Tolerance	±0.5V
	Voltage Accuracy	±0.5V
	Voltage Regulation	±0.5%
	Load Regulation	±1%
	Rated Current	12.50A
	Rated Power	300W
Input	Voltage Range	110-277VAC
	Frequency Range	47 ~ 63HZ
	Power Factor (Typ.) @full load	0.99@120VAC 0.98@230VAC 0.97@277VAC
	THD (Typ.) @full load	<10%@120VAC <20%@230VAC <20%@277VAC
	Inrush Current (Typ.)	20A, 50%, 1.9ms @ 120VAC; 60A, 50% 130us @ 230VAC
	Efficiency (Typ.) @Full Load	88%@120VAC 92%@230VAC 92%@277VAC
	AC Current (Typ.)	3.13A@110VAC
	Leakage current	<0.50mA
Protection	Short Circuit	shut down o/p voltage, re-power on to recover after fault condition is removed
	Over load	≤120% Hiccup mode, recovers automatically after fault condition is removed
	Over temperature	100℃±10℃ shut down o/p voltage, automatically recover after cooling
Environment	Working temp.	-40 ~ +60℃ (see below derating curve)
	Working Humidity	20 ~ 90%RH, non-condensing
	Storage TEMP. Humidity	-40 ~ +80℃, 10 ~ 95%RH
	TEMP. coefficient	±0.03%/℃ (0 ~ 50℃)
	Vibration	10 ~ 500Hz, 5G 10min./1 cycle, period for 60min. each along X,Y,Z axes
Safety & EMC	Safety standards	UL8750
	Withstand voltage	I/P-O/P: 1.88KVAC
	Isolation resistance	I/P-O/P: 100MΩ/500VDC/25℃/70%RH
	EMC EMISSION	FCC 47 CFR Part 15, Subpart B
	EMC IMMUNITY	EN61000-4-2,3,4,5,6,11 (Surge 4KV)
Others	Weight	1.7Kg
	Size	276*78*47mm (L*W*H)
Notes	1. All parameters NOT specially mentioned are measured at 120VAC input, rated load and 25℃ of ambient temperature 2. To extend the driver's lifespan, reduce the loading at lower input voltage.	

IP67 NON-DIM. POWERSUPPLY 300W

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Input:
Rubber cable 3 × 18 AWG – the black and white wires should be connected to AC L and N, while the green wire should be connected to ground.

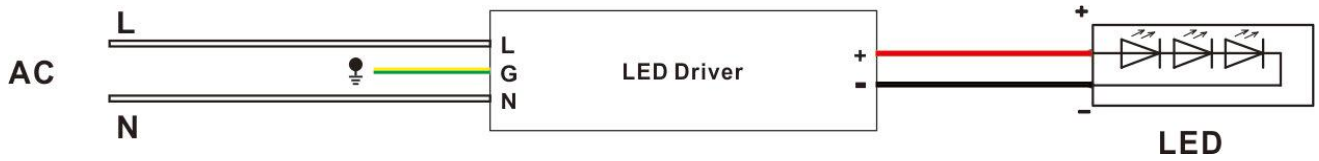
Output:
Rubber cable 2 × 14 AWG – the red wire should be connected to the LED positive side (+), and the black wire to the LED negative side (-).

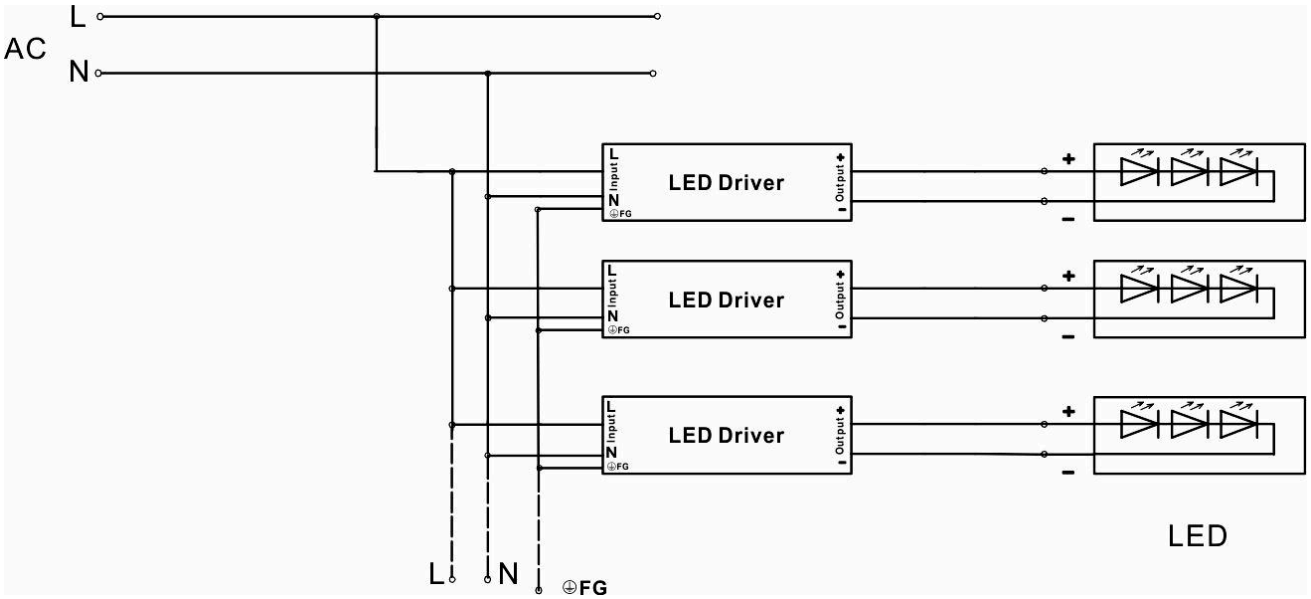
Note:

- 12V & 24V 300W models come with two sets of 2 × 14 AWG output wires to distribute the output current.
- 36V & 48V 300W models come with one set of 2 × 14 AWG output wires to distribute the output current.

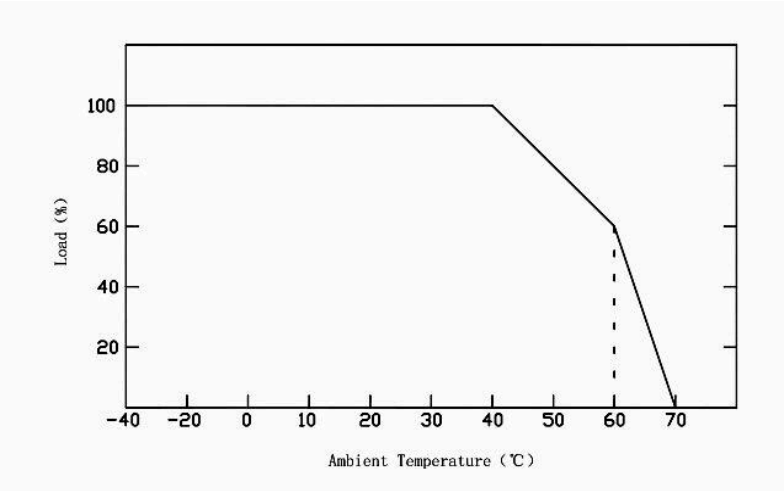
CONNECTING DIAGRAM

Simple connection diagram





DERATING CURVE



Make sure to adjust the load based on the load derating curve, which accounts for changes in ambient temperature. This helps prolong the working life of the system.

INSTRUCTION

- This driver should be installed by a qualified professional.
- Ensure that the driver is installed with sufficient ventilation to allow for proper heat dissipation.
- Verify the wiring is correct before testing to prevent damage to the light and power supply.