

# Constant Voltage LED Driver

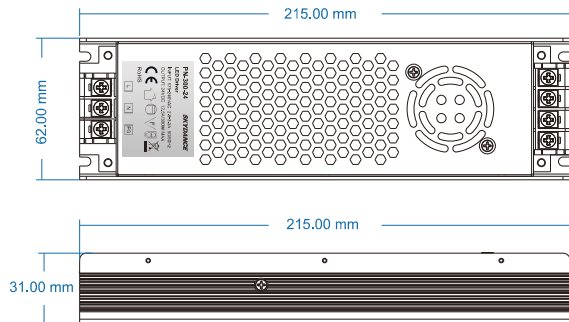
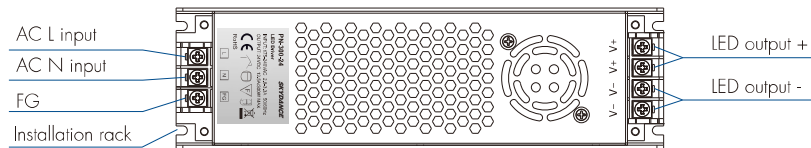
Model No.: PN-300-12, PN-300-24

## Features

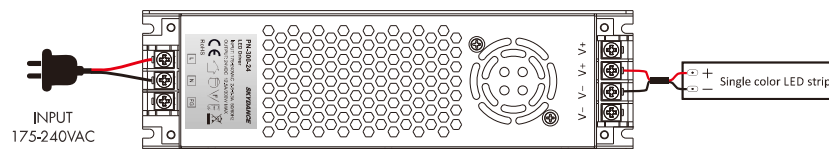
- 175-240V AC input.
- 1 channel constant voltage output, Max. total output power 300W.
- Over-heat / Over-load / Short circuit protection, recover automatically.
- **High quality aluminum alloy housing with fan cooling.**
- Small size, light weight and high efficiency.
- Suitable for indoor LED lighting application
- 5 Year, 50,000hr warranty.



## Mechanical Structures and Installations



## Wiring Diagram



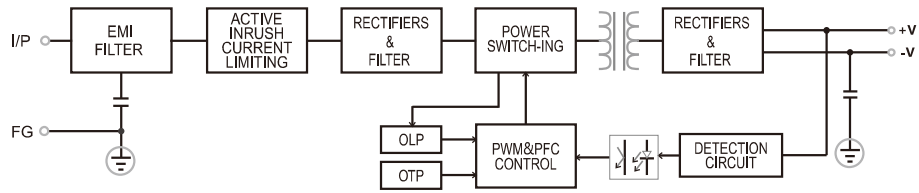
## Technical Parameters

Output	Model	PN-300-12	PN-300-24
	Rated Output Voltage		12V
No-load Voltage		12.6V	24.8V
Output Voltage Error		12V±5%	24V±5%
Rated Output Current		25A	12.5A
Output Current Range		0~25A	0~12.5A
Rated Output Power		300W	300W
Max Output Power		360W	360W
Ripple & Noise		≤100mVpp	≤110mVpp
Power Factor		0.6	0.6
Input	Input Voltage Range	175~240VAC 50/60Hz	
	Alternating Current	3.4A@175VAC ~ 2.9A@240VAC	3.25A@175VAC ~2.8A@240VAC
	Efficiency	86%	88%
	Cold Start Current	50A @240VAC	25A @240VAC
	Start, Rise, Hold Time	100ms, 50ms, 20ms	
	leakage Current	<10mA@240VAC	
Protection	Over Load	Shutdown the output when current load >= 105%~135% , auto recovers.	
	Over Current	Shutdown the output if over current occurs , auto recovers.	
	Short Circuit	Shutdown the output if short circuit occurs , auto recovers.	
	Over Temperature	Shutdown the output if the PCB temp > 100°C , auto recovers.	
Environment	Working Temperature / Humidity	-30°C~50°C, 20%~90%RH	
	Storage Temperature / Humidity	-40°C~80°C, 10%~95%RH	
	Vibration Resistance	10-500Hz, 2G, 6min/cycle, X,Y,Z axes/2min	
Safety&EMC	Security Specifications	IEC/EN61347-1, IEC/EN61347-2-13	
	Withstand Voltage	I/PO/P: 3750VAC	
	Insulation Resistance	I/PO/P: 100MΩ/500VDC/25°C/70%RH	
	EMC Emission	EN55015, EN61000-3-2 Class C, IEC61000-3-3	
	EMC Immunity	EN61000-4-2, 3, 4, 5, 6, 8, 11, EN61547	
	Certifications	CE, EMC	

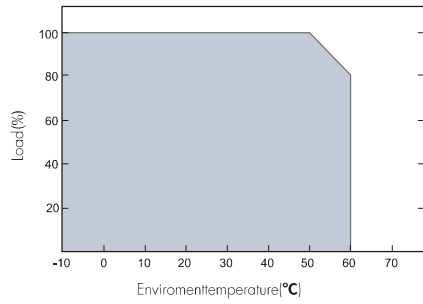
## Applications

- Suitable for LED related fixture or appliance which use LED light bar and LED tape (like LED Decoration or Advertisement devices).
- Office / Commercial / Domestic Lighting, Hotels, Retail and Display.

## Block Diagram



Loadreduction curve



Static characteristics curve

