

## Constant Voltage LED Driver

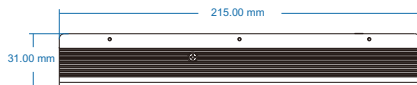
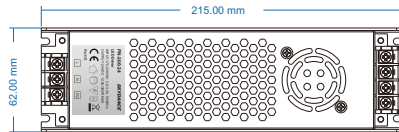
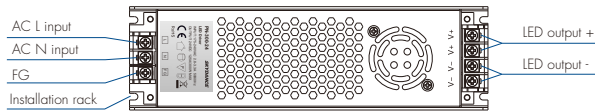
Model No.: PN-300-12, PN-300-24

### Features

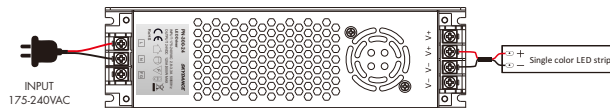
- 175-240V AC input.
- 1 channel constant voltage output, Max. total output power 300W.
- Overheat / Overload / Short circuit protection, recover automatically.
- **High quality aluminum alloy housing with fan cooling.**
- Small size, light weight and high efficiency.
- Suitable for indoor LED lighting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



### Mechanical Structures and Installations



### Wiring Diagram



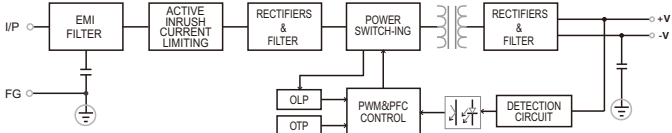
### Technical Parameters

Model	PN-300-12	PN-300-24	
Output	Rated Output Voltage	12V	24V
	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	<=110mVpp		
Power Factor	0.6		
Input	Input Voltage Range	175-240VAC 50/60Hz	
	Alternating Current	3.4A@175VAC - 2.9A@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		Woking 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		

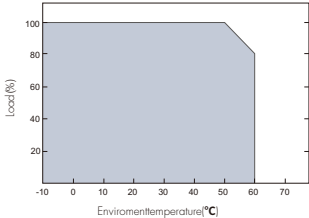
### Applications

- 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

