

## Constant Voltage LED Driver

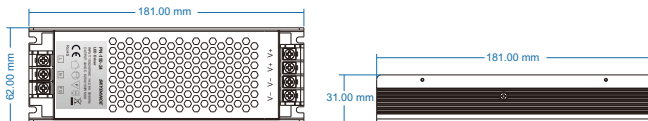
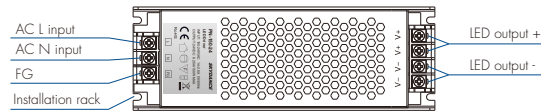
Model No.: PN-150-12, PN-150-24

### Features

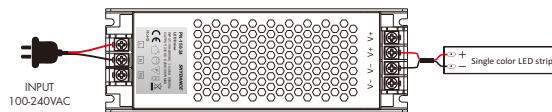
- Universal AC input / Full range.
- 1 channel constant voltage output, Max. total output power 150W
- Over-heat / Overload / Short circuit protection, recover automatically.
- **High quality aluminum alloy housing.**
- Small size, light weight and high efficiency.
- Suitable for indoor LED lighting application.
- 5 Year, 50,000hr warranty.



### Mechanical Structures and Installations



### Wiring Diagram



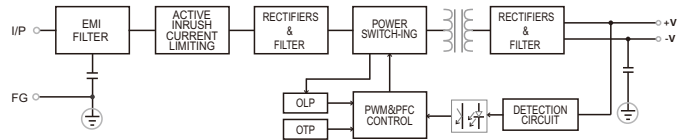
### Technical Parameters

	Model	PN-150-12	PN-150-24
Output	Rated Output Voltage	12V	24V
	No-load Voltage	12.6V	24.8V
	Output Voltage Error	12V±5%	24V±5%
	Rated Output Current	12.5A	6.25A
	Output Current Range	0-12.5A	0-6.25A
	Rated Output Power	150W	150W
	Max Output Power	180W	180W
Ripple & Noise	≤100mVpp	≤120mVpp	
Power Factor	0.6	0.6	
Input	Input Voltage Range	100-240VAC 50/60Hz	
	Alternating Current	2.64A@110VAC ~ 1.21A@240VAC	2.61A@110VAC ~ 1.43A@240VAC
	Efficiency	85%	87%
	Cold Start Current	40A @240VAC	40A @240VAC
	Start, Rise, Hold Time	100ms, 50ms, 20ms	
	Leakage Current	<10mA@240VAC	
Protection	Over Load	Shutdowntheoutputwhencurrentload=105%-135% , auto recovers.	
	Over Current	Shutdowntheoutputforover current occurs , auto recovers.	
	Short Circuit	Shutdowntheoutputifshortcircuitoccurs , auto recovers.	
	Over Temperature	Shutdowntheoutput 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/P/O/P: 3750VAC	
	Insulation Resistance	I/P/O/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		

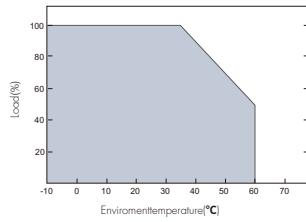
### Applications

- 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

