

Constant Voltage LED Driver

Model No.: PN-300-12, PN-300-24, PN-300-48



PN-300-12

PN-300-24

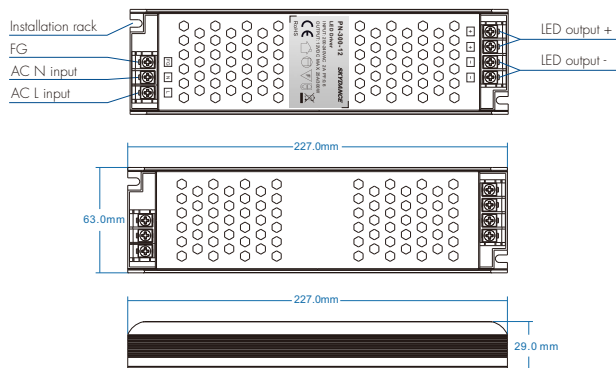
PN-300-48

Features

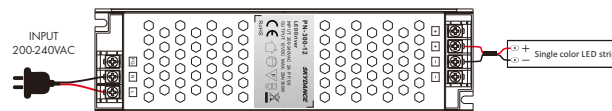
- 200-240V AC input.
- 1 channel constant voltage output, Max. total output power 300W.
- Overvoltage / Overload / Short circuit protection, recover automatically.
- High quality aluminum alloy housing with with fanless design.
- Small size, light weight and high efficiency.
- Suitable for indoor LED lighting application
- 3 Year, 30,000hr warranty.



Mechanical Structures and Installations



Wiring Diagram



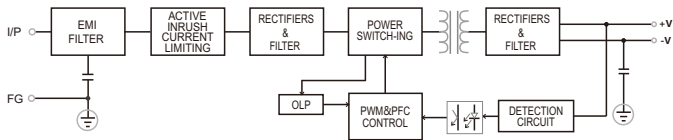
Technical Parameters

Output	Model	PN-300-12	PN-300-24	PN-300-48
Rated Output Voltage		12V	24V	48V
Output Voltage Error		12V±5%	24V±5%	48V±5%
Rated Output Current		25A	12.5A	6.25A
Rated Output Power		300W		
Ripple & Noise		<=200mVpp	<=120mVpp	<=150mVpp
Input				
Input Voltage Range		200~240VAC 50/60Hz		
Alternating Current		2A/230VAC		
PF		0.6		
Efficiency		86%	87%	88%
Surge		L-N:1kv, L-N-FG:2kv		
Cold Start Current		74A @230VAC		
Start, Rise, Hold Time		2000ms, 100ms, 10ms		
Leakage Current		<2mA@240VAC		
Protection				
Over Load		Shut down the output when current load>=105%~135%, auto recovers.		
Short Circuit		Shut down the output if short circuit occurs, auto recovers.		
Over Voltage		14~18V	27~34V	54~60V
		Shut down the output , auto recovers.		
Environment				
Working Temperature / Humidity		-20°C~45°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, I/PFG: 1800VAC		
Insulation Resistance		I/P/O/P: /PFG100MΩ/500VDC/25°C/70%RH		
Certifications		CE		

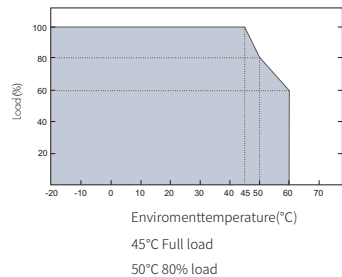
Applications

- Suitable for LED related fixture or appliance which use LED light bar and LED tape, (like LED Decoration or Advertisement devices). 48V for magnetit suction lamp
- Office / Commercial / Domestic Lighting, Hotels, Retail and Display.

Block Diagram



Loadreduction curve



Static characteristics curve

