

### **Indoor LED Power Supply**

#### **Features**



- . European AC input ( 200-240VAC )
- .Built-in active PFC function
- . IP20
- . Suitable for dry environment
- . Protections: Short circuit/Over temperature/ Over voltage
- . Adopt plastic case and internal glue potting.
- . Built-in lightning protection device, can meet the difference mode 1kV

© Comply with the world lighting equipment safety standards . 3 years warranty.

### **Description**

The SNP150 series is an indoor constant voltage LED Driver with an input voltage range of 180-264Vac,whose efficiency is up to 94% with fanless design, Its working in the temperature range of -20°C~+45°C under free air convection. It has a high power factor, ultra-low total harmonic distortion, low standby power consumption and other comprehensive protection functions, which not only greatly improve the reliability of the product, but also guarantee the product life cycle. This series of products is designed for LED lighting and is used in indoor lighting applications. They are suitable for a wide range of applications in almost any environment where LED luminaires can be installed. Comply with the World Safety standard for lighting equipment and ensure the safety of the user and the luminaire system during installation.

#### Model:

Model	Output voltage	Output current	Max.Output power	Output voltage precision	Total harmonic distortion (Typ.)	Power factor (Typ.)	Efficiency(T
SNP150-12VF-2	12V	0-11A	132W	±1%	13%	0.97	93%
SNP150-24VF-2	24V	0-6.25A	150W	±1%	13%	0.97	94%

Remark : All the parameters are measured at 230VAC input, full load and 25  $^{\circ}$ C of ambient temperature if they are not specially mentioned.



## **Indoor LED Power Supply**

### Input

Parameter	Min value	Typical value	Max value	Note
Rated input voltage	200 Vac		240Vac	Derating curve is shown in figure.
Input voltage	180 Vac		264Vac	
Input frequency	47Hz		63Hz	
Max.input current			0.9A	
Input inrush current			90A	230Vac/50Hz , Cold Start
Power factor	0.95	0.97		230Vac , Full Load
Total harmonic input		13%	15%	230Vac , Full Load
Leakage current			0.7mA	230Vac/50Hz , Full Load
Stand-by power		0.4W	0.5W	230Vac/50Hz , No Load
consumption				

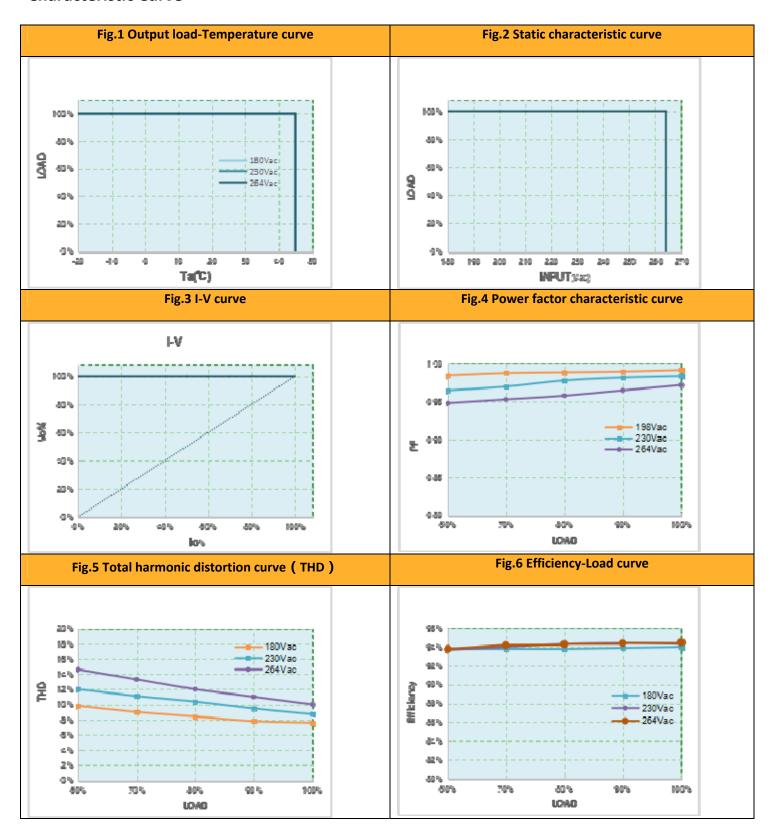
### **Output**

Parameter	SNP150-12VF-2	SNP150-24VF-2	Note
Output voltage	12.0VDC	24.0VDC	
Rated output current	11A	6.25A	
Output current	0-11A	0-6.25A	
Rated output power	132W	150W	
Rated output efficiency	93%	94%	230Vac
Output voltage precision		±1%	
Output voltage ripple ( PK-PK )	±3%		Full load(Test under 20M bandwidth)
Output current ripple ( PK-PK )			Full load ( Test under 20M
Rise time	100mS		bandwidth ) 230Vac
Startup time	300mS		230Vac
Line regulation	±1%		Full load
Load regulation		±1%	



### **Indoor LED Power Supply**

#### **Characteristic Curve**





## **Indoor LED Power Supply**

#### **Protection:**

Parameter		Conditions	Note
	Over load	1.1~1.6 times rated load	Auto-recovery after overload removed
Protection	Short circuit	Short circuit power≤0.5W	Hiccup mode,auto-recovery after short circuit removed.
	Over voltage	1.5 times of rated output voltage	Turn off the input voltage and recover after restart.
	Over temperature	110℃	Turn off the input voltage, the temperature can be restored after return to normal.

### **Environment Requirement:**

Parameter	Min.	Тур.	Max.	Note
Working temp.	-20℃	25°C	+45℃	See Fig.2
Storage temp.	-40℃	25°C	+85℃	
Working humidity	10%RH		90%RH	
Storage humidity	5%RH		95%RH	
IP grade			IP20	
Cooling mode	Natural cooling			

### Safety&EMC standard:

Certificate		Safety standards	Certification Note
UL/CUL			
TUV		EN61347-1:2015 EN 61347-2-13:2014+A1 EN62493:2015	
SAA		AS/NZS 61347.2.13	
ccc			
CE		EN 61347-2-13:2014 +A1 EN61347-1:2015	
Safety test		Qualification	Note
Dielectric compressive strength	Input to Output	3750Vac/5mA Max/60s	Reinforced insulation,no breakdown,no flashover
	Primary to		Basic insulation,no breakdown,no

www.snappy.cn



KNOW HOW. NO LIMITS.

## **Indoor LED Power Supply**

	117			
ground		flashover		
Secondary to		Functional insulation,no breakdown,no		
ground		flashover		
Input to output	≥10MΩ	Test voltage: 500Vdc		
stance		25A/1min		
t	≤0.75mA	264Vac		
EMI/EMS item	Standard/Level	Data		
n CE	EN55015			
ı RE	EN55015			
Harmonics EN IEC 61000-3-2		Class C		
	Secondary to ground Input to output stance t EMI/EMS item n CE	Secondary to ground  Input to output ≥10MΩ  Stance  t ≤0.75mA  EMI/EMS item Standard/Level  n CE EN55015  RE EN55015		

### **Others**

Parameters	Condition	Note
Lifetime	30,000 hours	230Vac , full load , case Temp 75 $^{\circ}{\mathbb C}$
MTBF	200,000 hours	230Vac , full load , environment Temp. 25℃ (MIL-HDBK-217F)
TC	90℃	
Warranty	3 years	
Weight	520g	
Dimensions	177mm * 56.4mm * 17.2mm	LxWxH



## **Indoor LED Power Supply**

Mechanical Specification ( Unit: mm )

