



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 requirements 1kV.
- . Comply with the world lighting equipment safety standards.
- . 5 years warranty.



Description:

SNP100 series is an indoor constant voltage LED driver with an input voltage range of 180-264Vac, whose efficiency is up to 93%, , fan-less design, working in the temperature range of -20°C to +45°C under free air convection. It has ultra-high power factor, ultra-low total harmonic distortion, low standby power consumption, with all-round protection functions, which not only greatly improves the reliability of the product, but also ensures the life cycle of product, suitable for almost kinds of indoor applications where LED lamps can be installed. The product designed completely in accordance with world's lighting equipment safety regulations to ensure the safety of both user and luminaire system during installation.

Model:

Model	Output voltage	Output current	Max. Output power	Output current precision	Total harmonic distortion (Typ.)	Power factor (Typ.)	Efficiency (Typ.)
SNP100-12VF-2	12V	0-8.33A	100W	±1%	16%	0.97	92%
SNP100-24VF-2	24V	0-4.17A	100W	±1%	16%	0.97	93%

Remark: All the parameters are measured at 230VAC input, full load and 25 °C of ambient temperature if not specially mentioned.

**SNAPPY**

KNOW HOW. NO LIMITS.

Ningbo SNAPPY Optoelectronics Co., Ltd.

Indoor LED Power Supply

Input:

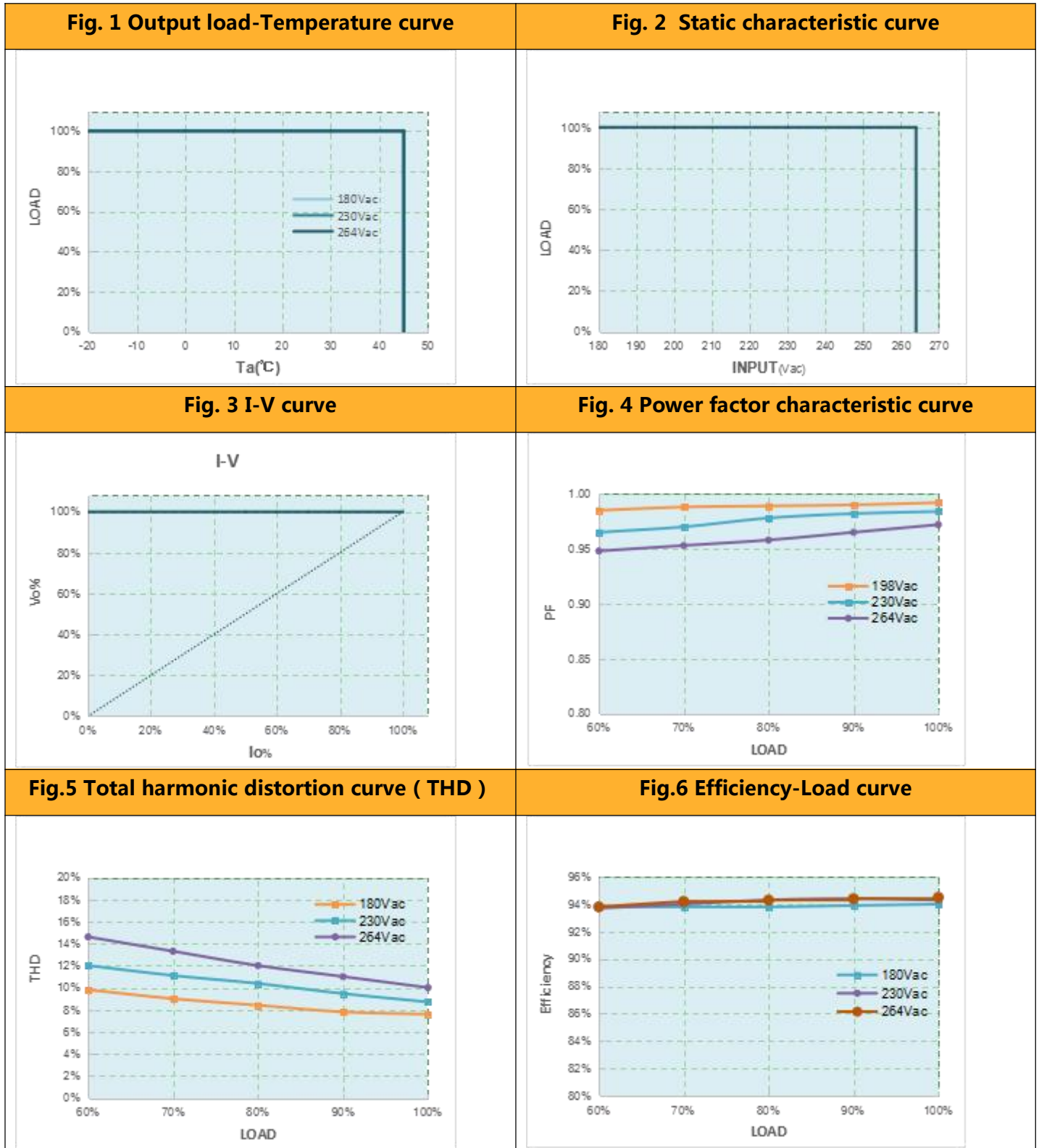
Parameter	Min. value	Typical value	Max. value	Note
Rated input voltage	200 Vac		240Vac	Derating curve is shown in figure
Input voltage	180 Vac		264Vac	
Input frequency	47Hz		63Hz	
Max. Input current			0.6A	
Input inrush current			90A	230Vac/50Hz, Cold Start
Power factor	0.95	0.97		230Vac, Full Load
Total harmonic input		16%	18%	230Vac, Full Load
Leakage current			0.7mA	230Vac/50Hz, Full Load
Stand-by power consumption		0.4W	0.5W	230Vac/50Hz, No Load

Output:

Parameter	SNP100-12VF-2	SNP100-24VF-2	Note
Output voltage	12.0VDC	24.0VDC	The max.output power must meet the requirements $P_o=V_o \cdot I_o=100W$
Rated output current	8.33A	4.17A	
Output current	0-8.33A	0-4.17A	
Rated output power	100W	100W	
Rated output efficiency	92%	93%	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 bandwidth)
Rise time	100mS		
Startup time	300mS		230Vac
Line regulation	±1%		full load
Load regulation	±1%		



Characteristic Curve:



**SNAPPY**

KNOW HOW. NO LIMITS.

Ningbo SNAPPY Optoelectronics Co., Ltd.

Indoor LED Power Supply

Protection:

Parameter		Conditions	Note
Protection	Over load	1.1-1.6 times rated load	Auto-recovery after overload removed.
	Short circuit	Short circuit power $\leq 0.5W$	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 °C	Turn off the input voltage, the temperature can be restored after return to normal.

Environment Requirement:

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

Remark: All the parameters are measured at 25 °C of ambient temperature if they are not specially mentioned.

**SNAPPY**

KNOW HOW. NO LIMITS.

Ningbo SNAPPY Optoelectronics Co., Ltd.

Indoor LED Power Supply

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 ground	---	Basic insulation,no breakdown, no flashover	
	Secondary to ground	---	Functional insulation, no breakdown, no flashover	
Insulation resistance	Input to output	≥10MΩ	Test voltage : 500Vdc	
Grounding resistance		---	25A/1min	
Leakage current		≤0.75mA	264Vac	
EMI/EMS item		Standard/Level	Data	
Conduction CE		EN55015		
Radiation RE		EN55015		
Harmonics		EN IEC 61000-3-2	Class C	

Others:

Parameters	Condition	note
Lifetime	30,000 hours	230Vac,full load, case Temp. 75°C
MTBF	200,000 hours	230Vac,full load, environment Temp. 25°C (MIL-HDBK-217F)
TC	90°C	
Warranty	5 years	
Weight	520 g	
Dimensions	177mm * 56.4mm * 17.2mm	L x W x H



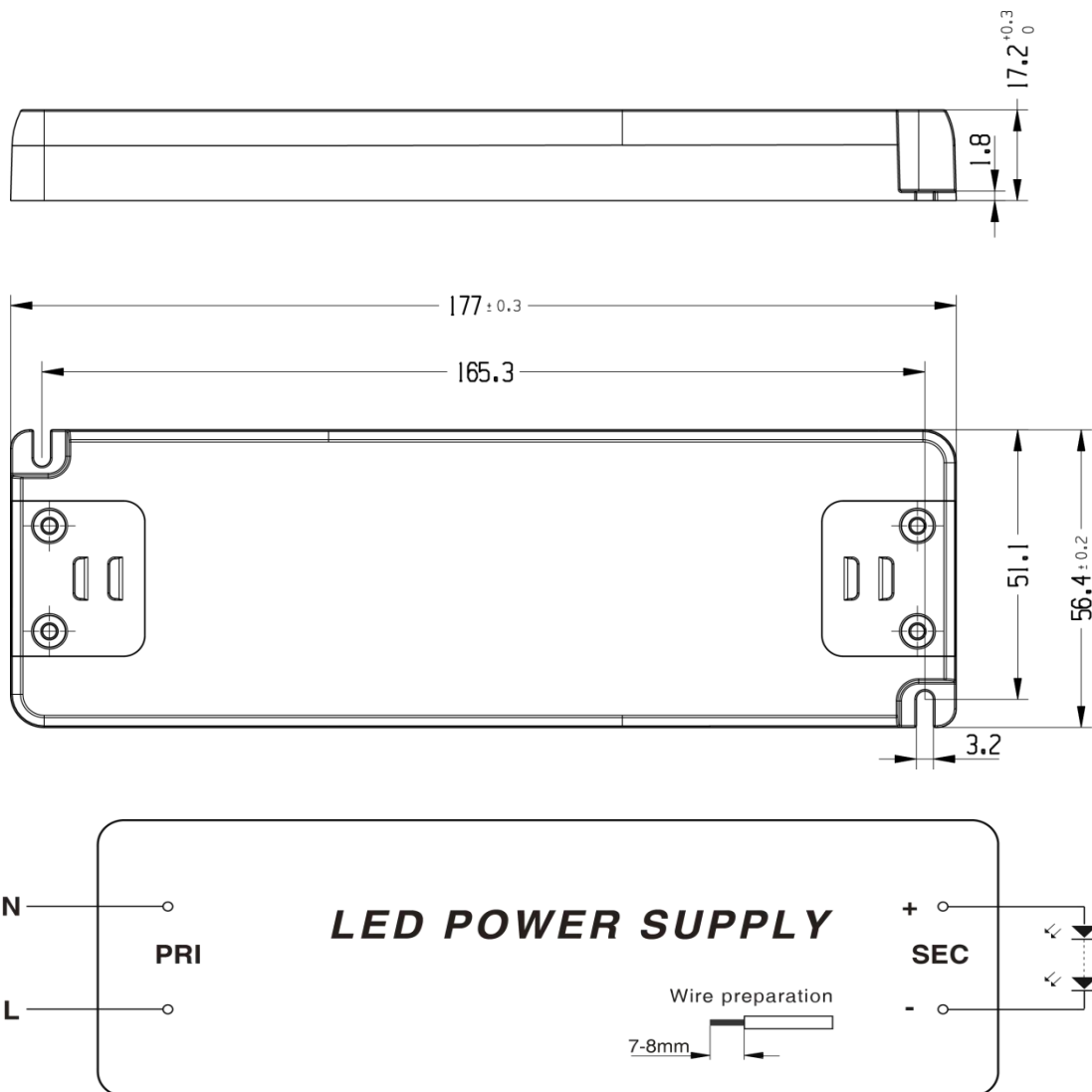
SNAPPY

KNOW HOW. NO LIMITS.

Ningbo SNAPPY Optoelectronics Co., Ltd.

Indoor LED Power Supply

Mechanical Specification (Unit : mm)



Remark :

AC input cable	Terminal block, H03VVH2-F 2×0.75mm ²
DC output cable	Terminal block, H05VVH2-F 2*1.0mm ²