Constant Voltage LED Power Supply

SNP200-12VL-1 SNP200-24VL-1 SNP200-48VL-1





Product description

The SNP200 series is an indoor constant voltage LED driver power supply. Its input voltage range is 180-264Vac, with a conversion efficiency of up to 94%. It adopts a fanless design and works at -20°C ~ +45°C with natural cooling. The temperature range of the chassis, ultra-high power factor, ultra-low total harmonic distortion, low standby power consumption, and all-round protection functions not only greatly improve the reliability of the product, but also ensure the product life cycle. This series of products is designed for LED lighting design and used in indoor lighting. Suitable for various application environments in almost all indoor places where LED lamps can be installed. Complies with world lighting equipment safety regulations while ensuring the safety of users and lighting systems during installation.

Standards

EN61347-1 EN61347-2-13 EN61547 EN55015 EN61000-3-2

EN61000-3-2

EN62384

EN62493

Characteristics

- European AC input range (180-264VAC)
- With active PFC function
- Waterproof rating IP20
- Suitable for indoor environments
- Protection type: short circuit/over temperature/over voltage protection
- plastic shell
- Comply with world lighting equipment safety regulations
- 5 years warranty



Specifications

Model		SNP200-12VL-1	SNP200-24VL-1	SNP200-48VL-1			
	turn on time(S)	<0.5	<0.5	<0.5			
	output power(W)	180	200	200			
	output voltage(V)	12	24	48			
	output voltage tolerance	≤±5%	≤±5%	≤±5%			
	ripple voltage(mV)	240	480	960			
	Line Regulation	1%	1%	1%			
	Load Regulation	1%	1%	1%			
0	working current range(A)	15MAX	8.33MAX	4.16MAX			
Output	SVM	0.4					
	Pst	1.0					
	dimming type	NA NA					
	dimming range	NA					
	rated DC supply voltage(Vdc)	NA					
	rated supply voltage(Vac)	200-240					
	voltage range(Vac)	180-264					
	line frequency(Hz)	50/60					
	input current(A)	1.2					
	efficiency (TYPE)	93%@full load	94%@full load	93%@full load			
	average efficiency(TYPE) 3	91.5%	92.5%	91.5%			
	no load power consumption(W)	≤0.5W					
	power factor	0.95@full load					
Input	Displacement factor	0.95					
	THD(typ.) THD (Type)		15%				
	inrush current(lpk) (lpk)	65A/500uS					
	Leakage current (mA)	0.7@240Vac 60Hz					
	short circuit protection	hiccup mode, restart automatically after fault correction.					
	over load protection	hiccup mode,	restart automatically at	fter fault correction.			
	Over voltage protection	Yes(latch off)					
	Over temperature protection	Yes(latch off)					
Protectio	n surge capacity	L-N: 1KV					
	Withstand voltage	Input-Output: 3000V/5mA/1min					
	Ta(C)	-2045					



Ambient and Life	Tc max.(C)	max.90	
	Storage Temperature(C)	-3080	
	ambient humidity range	5%85%RH, Not condensing	
	nominal life-time(hrs)	50'000@Ta	
	dimensions (L×W×H)(mm)	195mm * 67.1mm * 31.2mm	
	weight(g)	520	
	casing material	plastics	
	housing colour White		
Other	type of protection	IP20	
	protection class	class II	
	certificate		

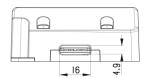
- 1.Tolerance:includes set up tolerance, line regulation and load regulation.
- 2.Tested at full load,230Vac.Refer to "Power Factor" and "EFFICIENT" curve graphs.
- 3.Calculate the model's average efficiency for each test voltage by testing at 100%, 75%, 50%, and 25% of rated current and then computing the simple arithmetic average of these four values.
- 4.All parameters NOT specially mentioned are measured at nominal voltage input, rated load and 25 of ambient temperature.
- 5.The power supply is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the complete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again.

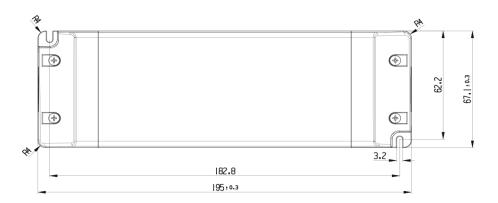
Note



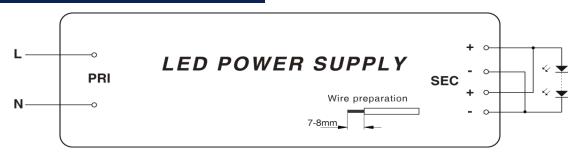
Dimensions (mm)







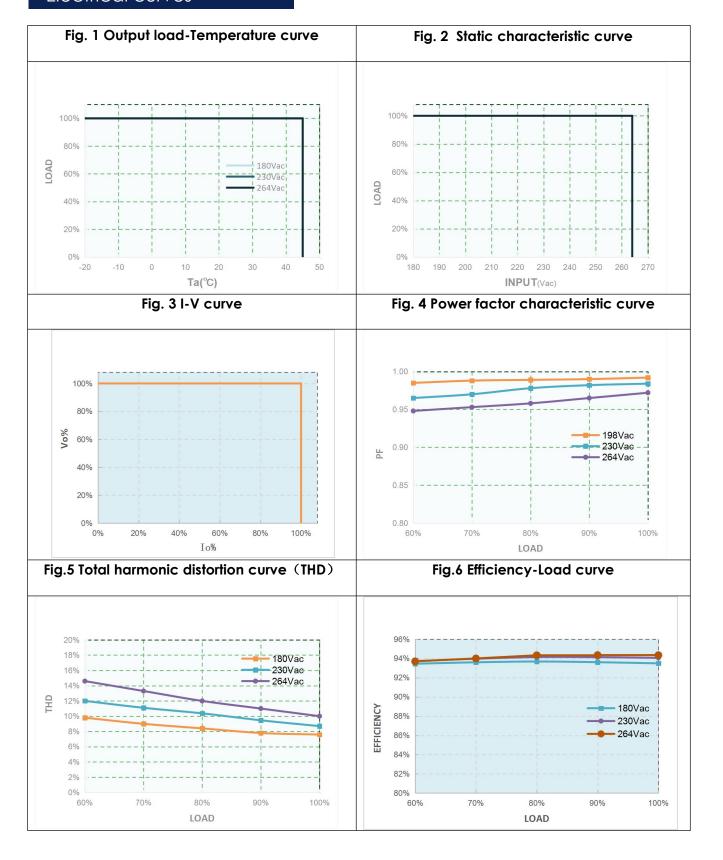
Wiring Diagram



AC	H03VVH2-F 2*0.75mm ²
DC	H05VVH2-F 2*1.0mm ² *2 (12/24V) /H05VVH2-F 2*1.0mm ² (48V)



Electrical curves





MCBS

MCBS Model	B10	B13	B16	B20	C10	C13	C16	C20
SNP200-XXVL-1	2	3	4	5	3	4	5	6

Package

Model	Carton quantity(pcs)	Carton dimension(mm)	G.W./CTN(kg)
SNP200-XXVL-1			

Revision history

Date	Rev.	Remark
2023.8.20	A2	release

