# Constant Voltage LED Power Supply

SNP250-12VL-1 SNP250-24VL-1 SNP250-48VL-1





#### **Standards**

EN61347-1 EN61347-2-13 EN61547 EN55015 EN61000-3-2 EN61000-3-3 EN62384

EN62493

#### Product description

SNP250 is an indoor constant voltage LED driver, with an input voltage range of 180-264Vac and a maximum conversion efficiency of up to 94%. It adopts fanless design and operates in the temperature range of -20 ° C to+45 ° C natural cooling and cooling casing, and has ultra-high power factor, ultra-low total harmonic distortion, standby power consumption, comprehensive protection functions. It not only greatly improves product reliability, but also ensures product life cycle. This series of products is designed for LED lighting design and applied to indoor lighting. It is suitable for various application environments in almost all indoor places where LED luminaires can be installed. Comply with the world's lighting safety regulations, and at the same time ensure the safety of users and lighting systems during installation.

#### Characteristics

- European AC input (180-264VAC)
- With active PFC function
- IP20
- Suitable for dry indoor environment
- Protections: Short circuit / Over voltage / Over temperature
- Plastic case
- Compliance to worldwide safety regulations for lighting
- 5 years warranty

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### Specifications

Model		SNP250-12VL-1	SNP250-24VL-1	SNP250-48VL-1			
	turn on time(S)	<0.5	<0.5	< 0.5			
	output power(W)	216	250	240			
	output voltage(V)	12	24	48			
	output voltage tolerance	≤±5%	≤±5%	≤±5%			
	ripple voltage(mV)	240	480	960			
Output	Line Regulation	1%	1%	1%			
	Load Regulation	1%	1%	1%			
	working current range(A)	18MAX	10.4MAX	5MAX			
	SVM	0.4					
	Pst	1.0					
	dimming type	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)	1.4					
Input	efficiency	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					
	Displacement factor	0.95					
	THD(typ.)	15%					
	inrush current(Ipk)	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 after fault correction.					
	Over voltage protection	Yes(latch off)					
	Over temperature	Yes(latch off)					
Protection	protection surge capacity	L-N: 1KV					
	Withstand voltage	Input Output, 3000V/5m4/1min					
	will statia vollage	Input-Output: 3000V/5mA/1min					

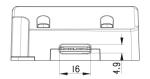


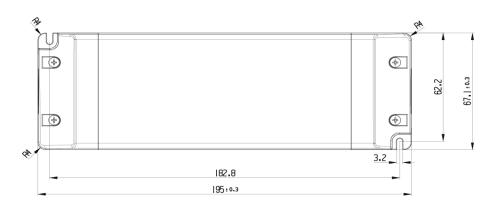
Ambient and Life	Ta(C)	-2045				
	Tc max.(C)	max.90				
	Storage Temperature(C)	-3080				
	ambient humidity range	5%85%RH, Not condensing				
	nominal life-time (hrs)	50'000@Ta				
	dimensions (L×W×H) (mm)	195mm * 67.1mm * 31.2mm				
	weight(g)	520				
	casing material	plastics				
Other	housing colour	White				
	type of protection	IP20				
	protection class	class II				
	certificate					
	ambient temperature. 5.The power supply is considerequipment. Since EMC performance.	ly mentioned are measured at nominal voltage input, rated load and 25 of ered as a component that will be operated in combination with final ormance will be affected by the complete installation, the final equipment y EMC Directive on the complete installation again.				



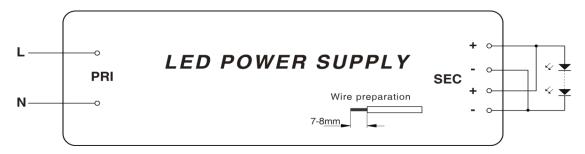
## Dimensions(mm)







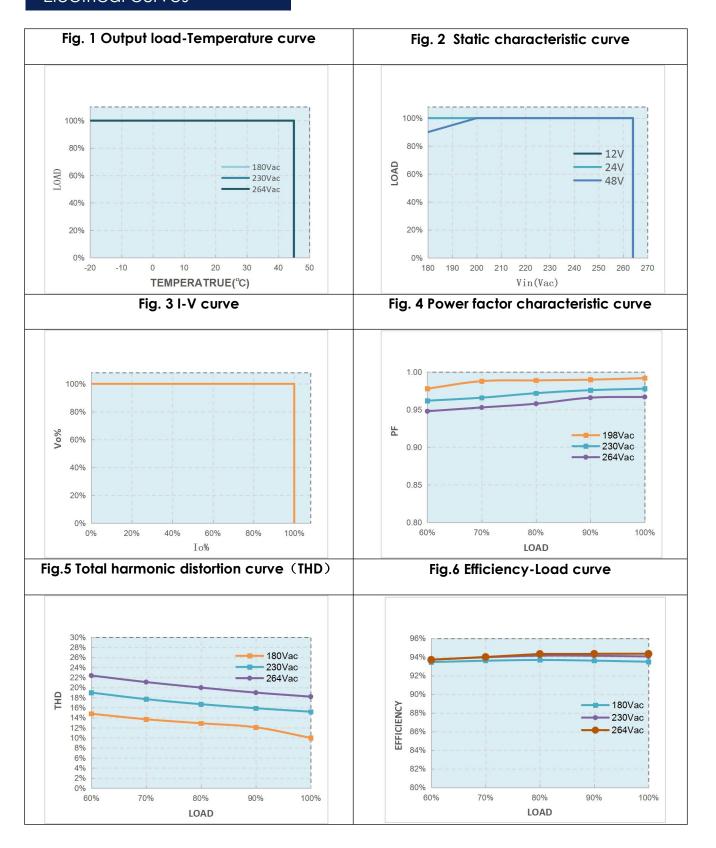
### Wiring Diagram



AC	terminal + H03VVH2-F 2*0.75mm2
DC	terminal + H05VVH2-F 2*1.0mm2 *2 (12/24V) /H05VVH2-F 2*1.0mm2 (48V)



#### Electrical curves





#### MCBS

MCBS Model	B10	B13	B16	B20	C10	C13	C16	C20
SNP250-XXVL-1	2	3	4	5	3	4	5	6

## Package

Model	Carton quantity(pcs)	Carton dimension(mm)	G.W./CTN(kg)
SNP250-XXVL-1			

# Revision history

Date	Rev.	Remark
2023.8.20	A2	Initial release.
2023.8.30	A3	Add 48V

