Constant Voltage LED Power Supply

SNP200-24VFP-1

Product description

SNP200 series is a constant voltage waterproof power supply. Its input voltage range is 198-264Vac, with the high efficiency up to 95%, fanless design, working in the temperature range of - 40 ° C to + 60° 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. This series are designed for LED lighting suitable in almost all kinds of 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.

Standards

EN61347-1
EN61347-2-13
EN61547
EN55015
EN61000-3-2
EN61000-3-3
EN62384
EN62493

Characteristics

- European AC input(220-240VAC)
- Built-in active PFC function
- Waterproof IP66
- Can be used both indoor and outdoor
- Protections: Short circuit / Over voltage / Over temperature
- Adopt plastic case and internal glue filling
- Compliance to worldwide safety regulations for lighting
- 5 years warranty

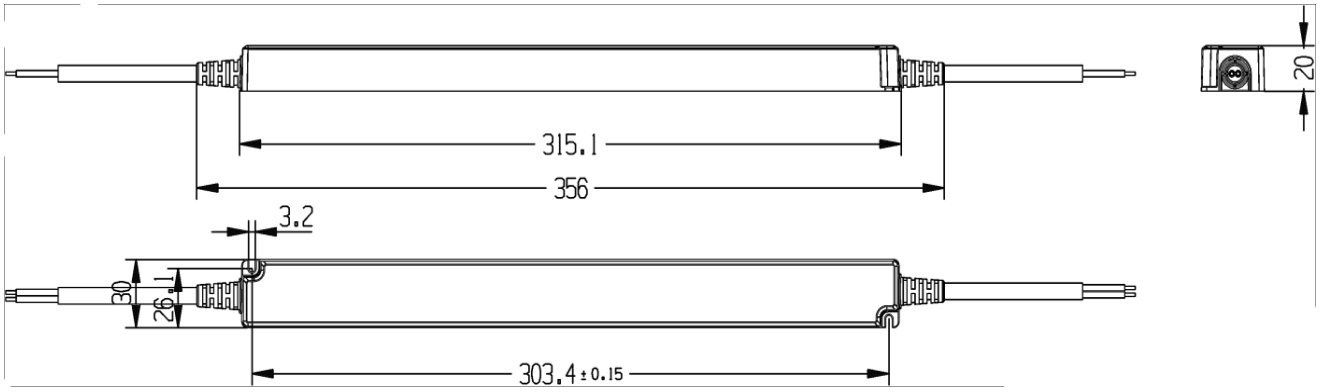
SNAPPY
KNOW HOW. NO LIMITS.

Specifications

Model		SNP200-24VFP-1
Output	turn on time(S)	＜0.5
	output power(W)	200
	output voltage(V)	24
	output voltage tolerance	≤±5%
	ripple voltage(mV)	150
	Line Regulation	1%
	Load Regulation	3%
	working current range(A)	0-8.33
	SVM	0.4
	Pst	1.0
	dimming type	NA
	dimming range	NA
Input	rated DC supply voltage(Vdc)	311-373
	rated supply voltage(Vac)	220-240
	voltage range(Vac)	198-264
	line frequency(Hz)	50/60
	input current(A)	1.1
	efficiency(TYPE)	94.5%@full load
	average efficiency(TYPE) 3	94%
	no load power consumption(W)	≤0.5W
	power factor	0.95@full load
	Displacement factor	0.95
	THD(typ.) THD	4%
	inrush current(Ipk)	80A/400uS
	Leakage current (mA)	0.7@240Vac 60Hz
Protection	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 protection	Yes(latch off)
	surge capacity	L-N: 1KV
	Withstand voltage	Input-Output：3000V/5mA/1min
	Ta(C)	-40…60(See derating curve)
	Tc max.(C)	max.90

Ambient and Life	Storage Temperature(C)	-30...80
	ambient humidity range	5%...85%RH, Not condensing
	nominal life-time(hrs)	50'000@Ta
Other	dimensions (L×W×H)(mm)	315.1x30x20
	weight(g)	400
	casing material	plastics
	housing colour	white
	type of protection	IP66
	protection class	class Ⅱ
	certificate	
Note	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.	

Dimensions(mm)



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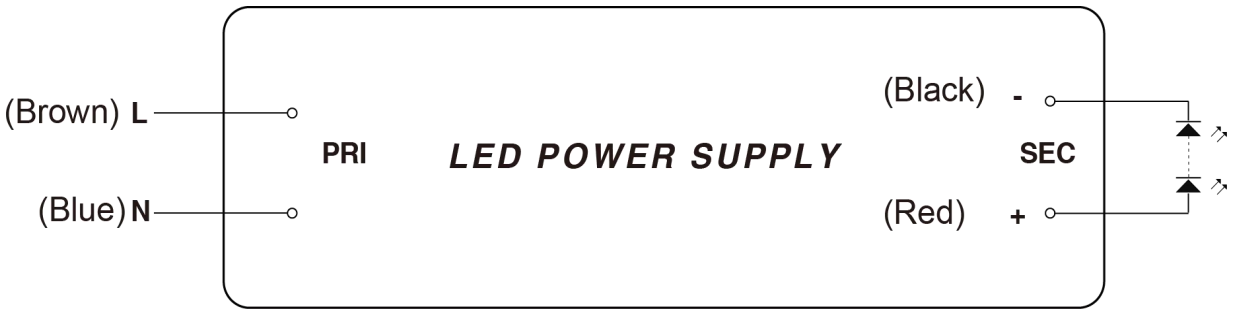
Wiring Diagram



AC	H05RN-F 2*1.0mm^2
DC	SVT16AWG

Electrical curves

Fig. 1 Output load-Temperature curve

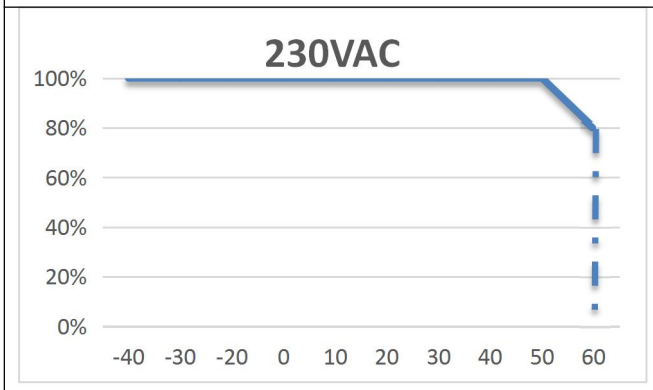


Fig. 2 Static characteristic curve

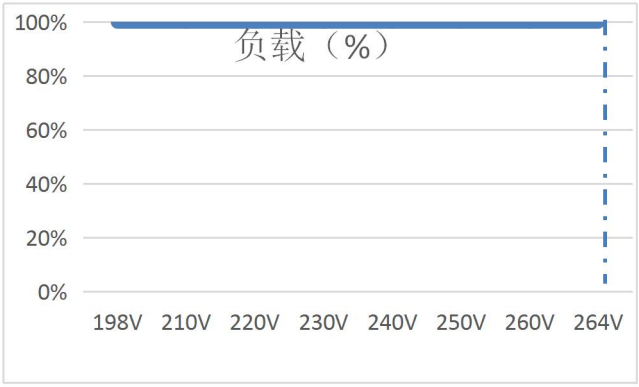


Fig. 3 I-V curve

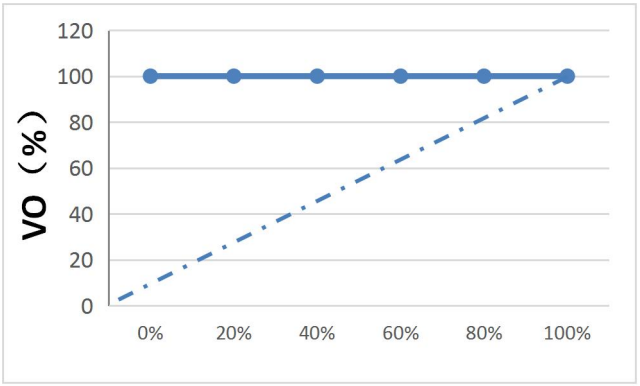


Fig. 4 Power factor characteristic curve

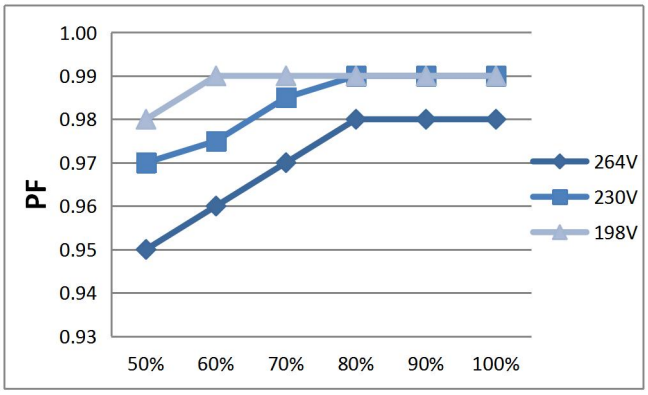


Fig.5 Total harmonic distortion curve（THD）

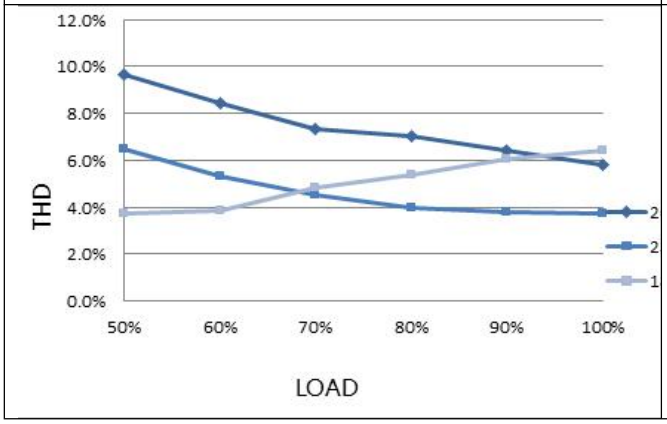
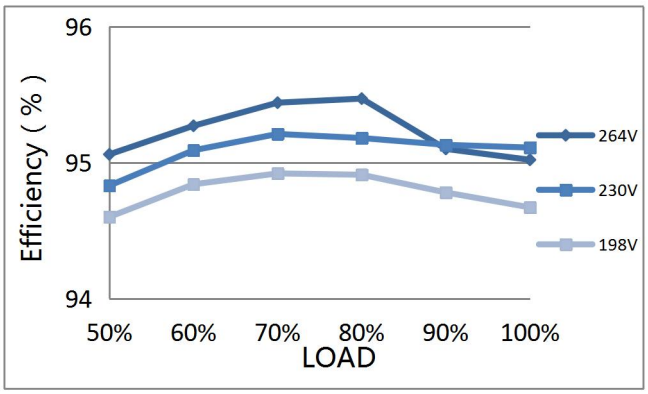


Fig.6 Efficiency-Load curve



MCBS

MCBS / Model	B10	B13	B16	B20	C10	C13	C16	C20
SNP200-24VFP-1	4	5	6	7	5	6	7	9

Package

Model	Carton quantity(pcs)	Carton dimension(mm)	G.W./CTN(kg)
SNP200-24VFP-1			

Revision history

Date	Rev.	Remark
2023.2.15	A0	Initial release.
2023.3.15	A1	Official release