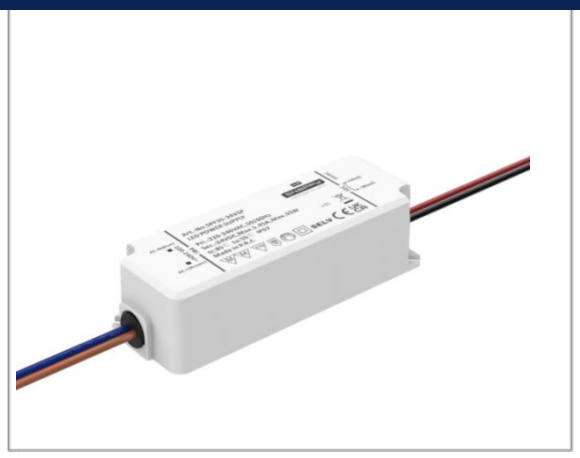
Constant Voltage LED Power Supply

SPF35-24VSP



Product description

The SPF35-24VSP is a constant voltage IP67 LED driver power supply with an input voltage range of 220-240Vac and up to 87% conversion efficiency. It works in the temperature range of -20° C~+65° C natural cooling casing, has high power factor, low standby power consumption and all-round protection function. This not only greatly increases the reliability of the product, but also guarantees the product life cycle. This series of products is designed for LED lighting and is designed for indoor lighting. It is suitable for a wide range of applications in almost all indoor locations where LED luminaires can be installed. Comply with the world's lighting equipment safety regulations, while ensuring the safety of the user and the luminaire system during installation.

Standards

EN61347-1:2015
EN 61347-2-13:2014+A1
EN62493:2015
AS/NZS 61347.2.13
EN 61347-2-13:2014 +A1
EN61347-1:2015

Characteristics

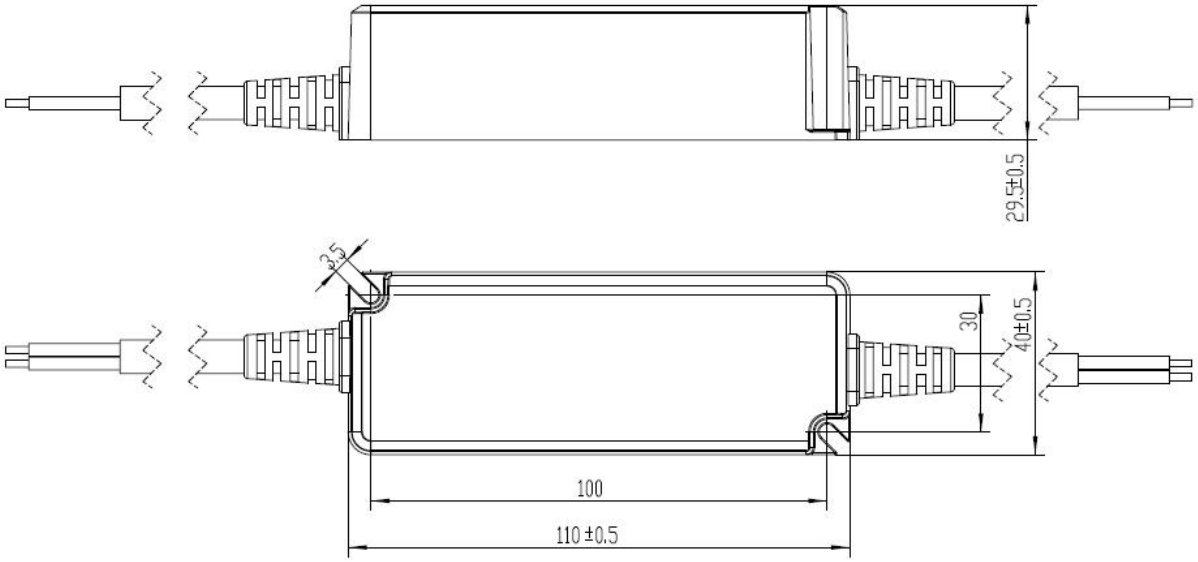
- European input voltage 220-240VAC
- IP67
- Suitable for indoor environment
- Short circuit/over load/open circuit protection
- Plastic case
- Compliance to worldwide safety regulations for lighting
- Warranty: 5 years

Specifications

Model		SPF35-24VSP
Output	turn on time(S)	＜0.5
	output power(W)	35
	output voltage(V)	24
	output voltage tolerance	≤±5%
	ripple voltage(mV)	240
	Line Regulation	3%
	Load Regulation	3%
	working current range(A)	0-1.45
	SVM	≤0.4
	Pst	≤1
	dimming type	N/A
	dimming range	N/A
Input	rated DC supply voltage(Vdc)	-
	rated supply voltage(Vac)	220-240
	voltage range(Vac)	198-264
	line frequency(Hz)	50/60
	input current(A)	0. 18
	efficiency	87%@full load
	average efficiency 3	≥86%
	no load power consumption(W)	≤0.5W
	power factor	0.95@full load
	Displacement factor	0.95
	THD(typ.)	10%
	inrush current(Ipk)	21A/175uS
	Leakage current	＜0.7mA
Protection	short circuit protection	hiccup mode, restart automatically after fault correction.
	over load protection	exceed maximum rated load times 1.3
	Over voltage protection	-
	Over temperature protection	-
	surge capacity	L-N: 1KV
	Withstand voltage	Input-Output：3750V/5mA/1min
Ambient and Life	Ta(C)	-20…65（see fig1）
	Tc max.(C)	max.85
	Storage Temperature(C)	-40...80
	ambient humidity range	10%...95%RH, Not condensing

	nominal life-time(hrs)	50'000
Other	dimensions (L×W×H)(mm)	110*40*29.5
	weight(g)	250
	casing material	Plastic
	housing colour	White
	type of protection	IP67
	protection class	class II
	certificate	CB CE ENEC
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)



Wiring Diagram

AC	SR AWM1015 18AWG*1 UL brown/blue 105°600V L=150mm
DC	SR AWM1007 UL 16AWG*1 80℃ 300V red/black SNP-023002

Electrical curves

SPF35-24VSP

Fig. 1 Output load-Temperature curve

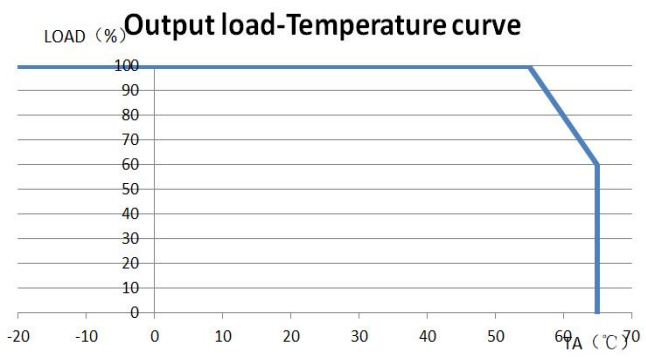


Fig. 2 Static characteristic curve

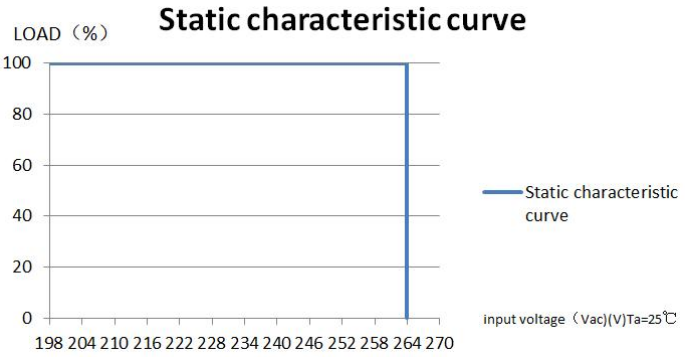


Fig. 3 I-V curve

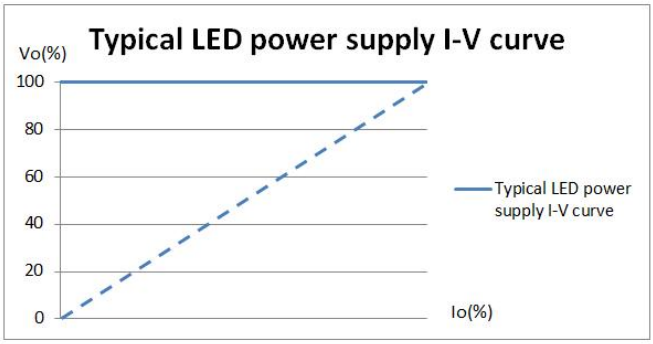


Fig. 4 Power factor characteristic curve

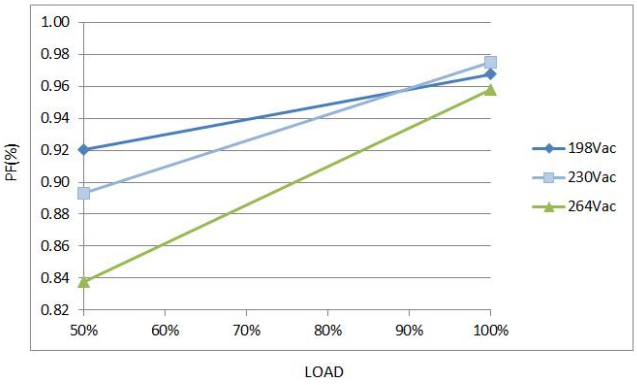


Fig.5 Total harmonic distortion curve（THD）

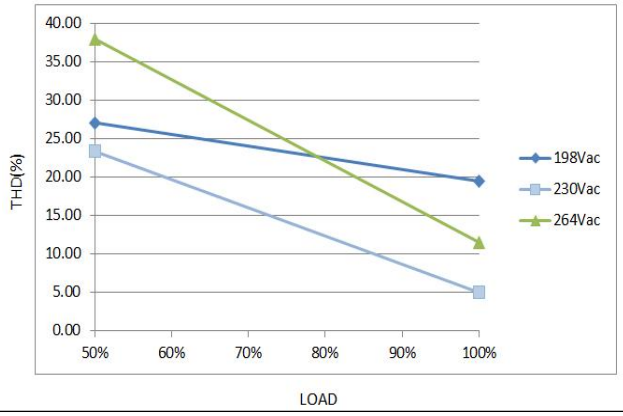
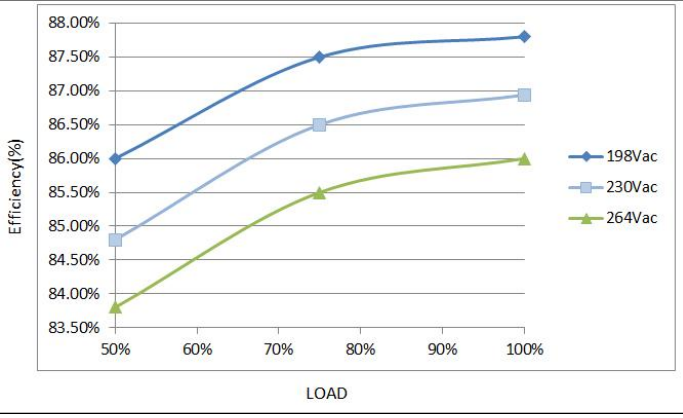


Fig.6 Efficiency-Load curve



MCBS

MCBS / Model	B10	B13	B16	B20	C10	C13	C16	C20
SPF35-24VSP	24	31	38	48	40	53	65	81

Package

Model	Carton quantity(pcs)	Carton dimension(mm)	G.W./CTN(kg)
SPF35-24VSP			

Dimmer Compatibility Chart nformation:

Fill in thyristor TRIAC DIMMABLE selection

Manufacturer	Dimmer Mode l

Conduction angle: 30 degrees(min.) / 180 degrees(max.)

Revision history

SNAPPY
KNOW HOW. NO LIMITS.

Date	Rev.	Remark
2023.3	A1	Initial release.