Constant Voltage LED Power Supply SL150-12VFT SL150-24VFT





Standards

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

www.snappy.cn

Product description

SL150-12/24VFT is an indoor triac dimmable constant voltage LED driver, the input voltage range is 220-240VAC, and the working range is - $20^{\circ}C^{\sim} + 45^{\circ}C$ natural cooling and heat dissipation, this product is not only costeffective, but also integrates 4 dimming methods; in order to improve the safety of the product, open circuit, short circuit and overload protection functions are added to the circuit. This series of products is designed for LED lighting and is suitable for indoor IP20 places with LED lighting. Comply with European lighting equipment safety regulations, and at the same time ensure the safety of users and lighting systems during installation.

Characteristics

- Compatible with Triac leading or trailing cut dimmers
- Suitable for European input voltage (220-240VAC)
- IP20
- With active PFC
- •Suitable for indoor environment
- Protection type: short circuit/over temperature/over voltage protection
 Using plastic ultra-thin strip shell, internal glue filling
- Built-in lightning protection device, meet differential mode common mode 1kV
- Conforms to European lighting
- equipment safety regulations
- Dimming range: 1-100% (Triac)
- Warranty 5 years



Specifications

Model		SL150-12VFT	SL150-24VFT		
	output power(W)	30-144	30-150		
	output voltage range(V)	12	24		
	output current(A)	2.4 - 12A	1.25– 6.25A		
Output	output voltage tolerance	≤±5%	≤±5%		
	Line Regulation	2%	2%		
	Load Regulation	5%	5%		
	Dimming mode	Triac leading or trailing	Triac leading or trailing		
	dimming range	1-100%	1-100%		
	SVM	0.1	0.1		
	Pst	0.1	0.1		
	turn on time(S)	<0.5	<0.5		
	rated supply voltage(Vac)	220-240	220-240		
	voltage range(Vac)	198-264	198-264		
	line frequency(Hz)	50/60	50/60		
	input current(A)	0.9@230V	0.9@230∨		
	efficiency (TYPE)	90.8%@full load	91.9%@full load		
Innut	average efficiency(TYPE) 3	89.7%	90%		
mpor	power factor	0.98@full load	0.98@full load		
	Displacement factor	0.98	0.98		
	THD(typ.) THD	<20%@full load 230V	<20%@full load 230V		
	inrush current(lpk)	60A@twidth=340us	60A@twidth=340us		
	Leakage current (mA)	<0.75@240Vac 60Hz	<0.75@240Vac 60Hz		
	short circuit protection	Yes(latch off)	Yes(latch off)		
	over load protection	exceed maximum rated load times	exceed maximum rated load times 1.1- 1.6 latch off		
	Over voltage protection	Yes(latch off)	Yes(latch off)		
	Over temperature protection	Yes(latch off)	Yes(latch off)		
Protection	surge capacity	L-N: 1KV	L-N: 1KV		
Theread	Withstand voltage	Input-Output: 3750V/5mA/1min	Input-Output: 3750V/5mA/1min		
	Ta(C)	-2045	-2045		
	Tc max.(C)	max.85	max.85		
Ambient	Storage Temperature(C)	-4080	-4080		
and Life	ambient humidity range	5%85%RH, Not condensing	5%85%RH, Not condensing		
	nominal life-time(hrs)	50'000@Tc 80	50'000@Tc 80		



	dimensions (L×W×H)(mm)	356.4*32.1*22.3	356.4*32.1*22.3	
	weight(g)	420g	420g	
Other	casing material	PC	PC	
Other	housing colour	White	White	
	type of protection	IP20	IP20	
	protection class	class II	class II	
	certificate			
Note	 I.Tolerance:includes set up tolerance, line regulation and load regulation. I.Tolerance:includes set up tolerance, line regulation and load regulation. I.Tolerance:includes set up tolerance, line regulation and load regulation. I.Tolerance:includes set up tolerance, line regulation and load regulation. I.Tolerance:includes set up tolerance, line regulation and load regulation. I.Tolerance:includes set up tolerance, line regulation and load regulation. I.Tolerance:includes set up tolerance, line regulation and load regulation. I.Tolerance:includes set up tolerance, line regulation and "EFFICIENT" curve graphs. 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. All parameters NOT specially mentioned are measured at nominal voltage input, rated load and 25 of ambient temperature. 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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AC Input	AC Input Terminal + H03VVH2-F 2*0.75mm ²		
DC Output 12V: Terminal + H05VVH2-F 2*2.0mm ²			
	24V: Terminal + H03VVH2-F 2*1.0mm ²		



28**.**6

→32° | **→**

8

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3.2

Electrical curves





MCBS

MCBS Model	B10	B13	B16	B20	C10	C13	C16	C20
SL150-12VFT	4	5	7	8	5	7	8	11
SL150-24VFT	4	5	7	8	5	7	8	11

Package

Model	Carton quantity(pcs)	Carton dimension(mm)	G.W./CTN(kg)
SL150-12VFT			
SL150-24VFT			

Revision history

Date	Rev.	Remark
2023.9.4	A0	Initial release.

