Constant Voltage LED Power Supply SL150-12/24/48VF-1





Standards

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

SL150 series is an indoor and outdoor constant voltage LED POWER SUPPLY, its input voltage range of 198-264Vac, with a maximum of up to 93% conversion efficiency, fanless design, working at -20 ° C $^{\sim}$ +45 ° C natural cooling chassis temperature range, and has a high power factor, ultra-low harmonic distortion, low standby power consumption, a full range of protection features, not only greatly improve product reliability and ensure product life cycle. This series of products is designed for LED lighting, and the application of LED lighting can be realized in a wide range of applications. This series of products for LED lighting design, designed for indoor lighting applications. Suitable for almost all indoor places where LED lamps can be installed in a variety of applications. Complies with the World Safety Code for Lighting Equipment and ensures the safety of the user and the luminaire system during installation.

Characteristics

- European AC input range (198-264VAC)
- With active PFC function
- Waterproof IP20
- Suitable for indoor environments
- Protection: Short circuit / Over temperature / Over -voltage protection
- Plastic shell
- Conforms to world lighting safety regulations
- Warranty 5 years



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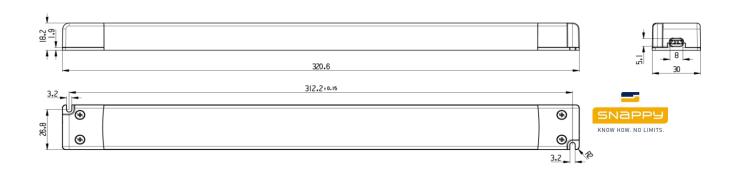
Specifications

Model		SL150-12VF-1	SL150-24VF-1	SL150-48VF-1			
	turn on time(S)	<0.5	<0.5	<0.5			
	output power(W)	132	150	150			
	output voltage(V)	12	24	48			
Output	output voltage tolerance	≤±5%	≤±5%	≤±5%			
	ripple voltage(mV)	240	400	800			
	Line Regulation	1%	1%	1%			
	Load Regulation	1%	1%	1%			
	working current range(A)	0-11	0-6.25	0-3.125			
	SVM	<0.4					
	Pst	<1.0					
	dimming type	NA					
	dimming range	NA					
	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)	1.0					
nput	efficiency (TYPE)	92.5%@full load	93.5%@full load	93.5%@full load			
	average efficiency(TYPE) 3	91%	91.5%	91.5%			
	no load power consumption(W)	≤0.5W					
	power factor	0.95@full load					
	Displacement factor	0.95					
	THD(typ.)	10%					
	inrush current(lpk)	80A/400uS					
	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 protection	Yes(automatic reboot)					
Protectio	nsurge capacity	L-N: 1KV					
	Withstand voltage	Input-Output: 3000V/5mA/1min					

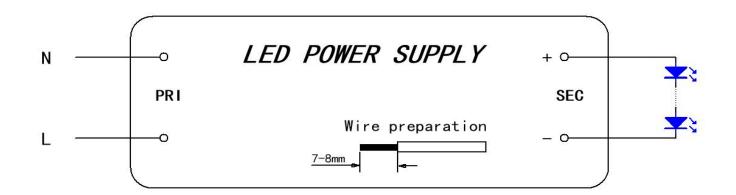


	Ta(C)	-2045				
Ambient and Life	Tc max.(C)	max.90				
	Storage Temperature(C)	-3080				
	ambient humidity range	5%85%RH, Not condensing				
	nominal life-time(hrs)	50'000@Ta35°C				
	dimensions (L×W×H)(mm)	320.6x30x18.2				
	weight(g)	250				
	casing material	plastics				
Other	housing colour	white				
	type of protection	IP20				
	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)



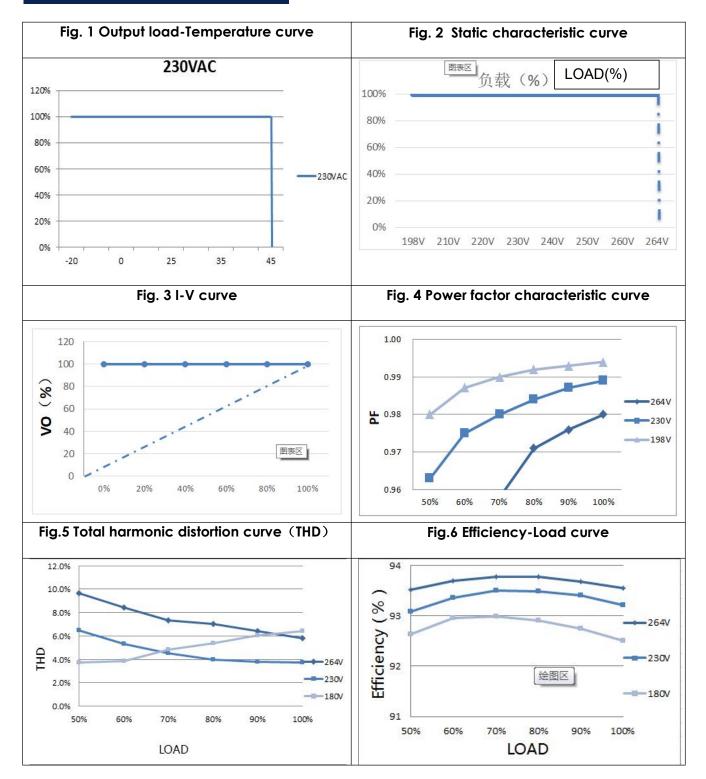
Wiring Diagram



AC	Terminal block + H03VVH2-F 2*0.75mm ²
DC	Terminal block + H03VVH2-F 2*0.75mm2 *2 (for 12V) H05VVH2-F 2*1.0mm ² (for24 and 48V)



Electrical curves





MCBS Model	B10	B13	B16	B20	C10	C13	C16	C20
SL150-12/24/48VF-1	6	7	9	11	7	9	11	13

Package

Model	Carton quantity(pcs)	Carton dimension(mm)	G.W./CTN(kg)
SL150-12/24/48VF-1			

Revision history

Date	Rev.	Remark
2023.4.12	A3	revise and publish

