Constant Voltage LED Power Supply

SS30-12VL SS30-24VL





Product description

SS30-12/24VL is an indoor constant voltage LED driver. Its input voltage range is 198-264Vac, with a conversion efficiency of up to 87%. It adopts a fanless design and works naturally at -20°C~+45°C. The cold heat dissipation casing has a wide temperature range, and has high power factor, low total harmonic distortion, low standby power consumption, and all-round protection functions, which not only greatly improves the reliability of the product, but also ensures the product life cycle. This series of products is designed for LED Lighting design, designed for indoor lighting, has a high cost performance.

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

- AC input range (220-240VAC)
- IP20
- Suitable for dry indoor environments
- Protection type: short circuit/overload/open circuit protection
- Plastic shell and filled with glue inside
- Comply with world lighting equipment safety regulations
- 5 years warranty



Specifications

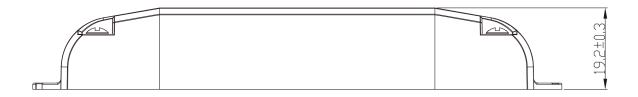
Model		SS30-12VL	\$\$30-24VL			
	Turn on time(S)		0.58			
	Output power(W)	30				
Output	Output voltage(V)	12	24			
	Output voltage tolerance	5%				
	Ripple voltage(mV)	3%				
	Line Regulation	1%				
	Load Regulation	1%				
	Working current range(A)	0-2.5	0-1.25			
	SVM	≤0.4				
	Pst	≤1				
	Dimming type	NA				
	Dimming range	NA				
	Rated DC supply voltage(Vdc)	NA				
	Rated supply voltage(Vac)	220-240				
	Voltage range(Vac)	198-264				
	Line frequency(Hz)	50/60				
	Input current(A)	<0.5				
	Efficiency (TYPE)	86%@full load,230Vac	88%@full load,230Vac			
	Average efficiency(TYPE) (TYPE)	84.5%	86.5%			
Input	No load power consumption(W)	≤0.5W				
	Power factor	0.95@full load				
	Displacement factor	0.95				
	THD(typ.) THD	8%				
	Inrush current(Ipk) (Ipk)	20A/150uS				
	Leakage current (mA)	0.7mA@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	NA				
	Over temperature protection	IC detect				

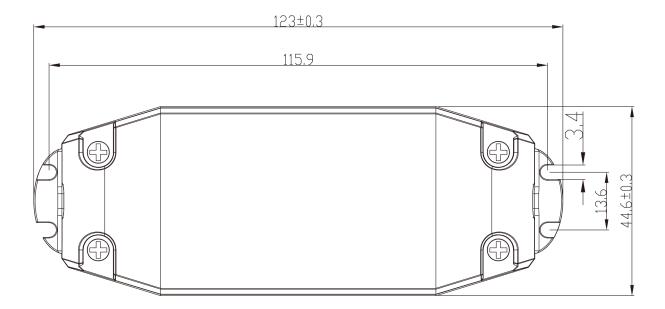


Protection	n Surge capacity	L-N: 1KV			
	Dielectric strength level	Input-Output:3750V/5mA/1min			
Ambient and Life	Ta(℃)	-2045(See derating curve)			
	Tc max.(℃)	max.80 °C			
	Storage Temperature(°C)	-40+80℃			
	Ambient humidity range	5%85%RH, Not condensing			
	Nominal life-time(hrs)	50'000@Ta			
	Dimensions (L×W×H) (mm)	123mm * 44.6mm * 19.2mm			
	Weight(g)	88			
	Casing material	Plastics			
Other	Housing colour	White			
	Type of protection	IP20			
	Protection class	Class II			
	Certificate	CE, TUV			
Note	 Tolerance:includes set up tolerance, line regulation and load regulation. Tested at full load,230Vac.Refer to Power Factor 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. 				

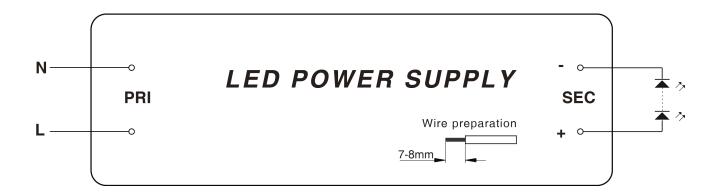


Dimensions(mm)





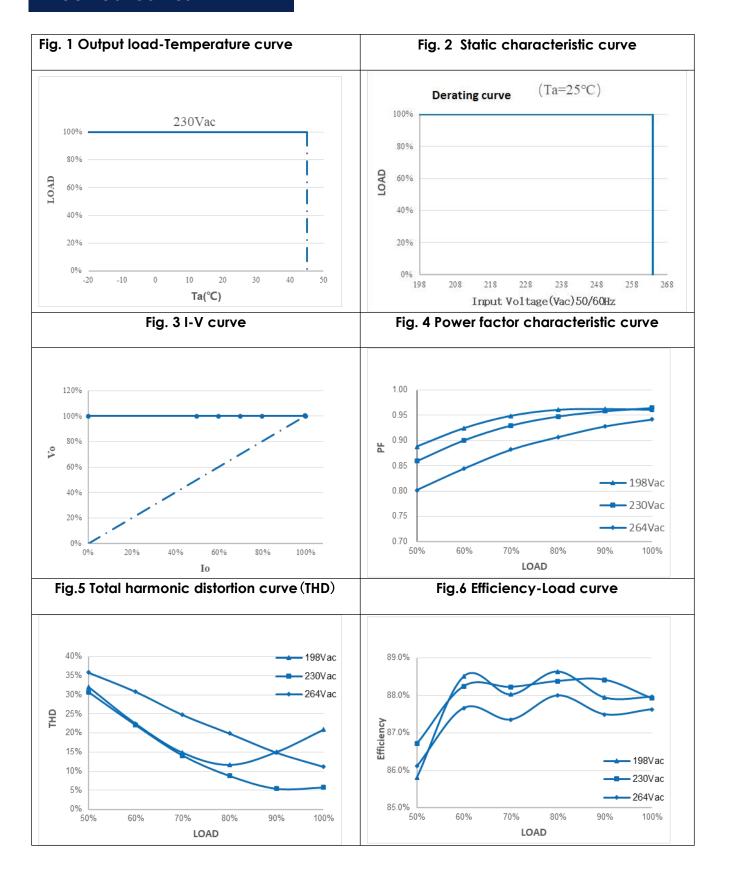
Wiring Diagram



AC	Terminal block H03VVH2-F 2×0.75mm²
DC	Terminal block H03VVH2-F 2×0.75mm²



Electrical curves





MCBS

MCBS Model	B10	B13	B16	B20	C10	C13	C16	C20
SS30-12/24VL	29	38	46	58	36	47	58	73

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Package

Model	Carton quantity(pcs)	Carton dimension(mm)	G.W./CTN(kg)
SS30-12/24VL			

Revision history

Date	Rev.	Remark
2021.5.24	A1	Initial release.
2023.11.22	A3	Format update

