Constant Voltage LED Driver SS60-12VL SS60-24VL SS60-48VL



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Product description

SS60-12/24/48VL is an indoor constant voltage LED driver. Its input voltage range is 198-264Vac, with a conversion efficiency of up to 90%. It adopts a fanless design and works at -20+45 degree natural cooling chassis temperature range, and has high power factor, low total harmonic distortion, low standby power consumption, and allround protection functions, which not only greatly improves the reliability of the product, but also ensures the product life cycle. This series of products designed for LED lighting design and used in indoor lighting, it 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 case Comply with world lighting equipment safety regulations 5 years warranty



Specifications

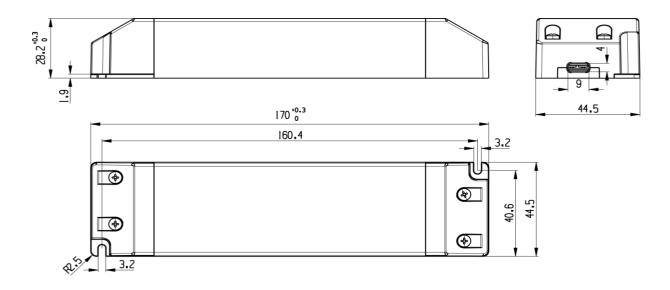
Model		SS60-12VL	SS60-24VL	SS60-48VL			
	Turn on time(S)		0.55				
Output	Output power(W)		60				
	Output voltage(V)	12	24	48			
	Output voltage tolerance		5%				
	Ripple voltage(mV)	3%					
	Line Regulation	1%					
	Load Regulation	2%					
	Working current range(A)	0-5	0-2.5	0-1.25			
	SVM	0.4					
	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)		<0.39				
	Efciency (TYPE)	87%@full load,230Vac	88%@full load,230Vac	89%@full load,230Vac			
Input	Average efciency(TYPE) (TYPE)	85.5%	86.5%	88%			
	No load power Consumption(W)	0.5W					
	Power factor	0.95@full load					
	Displacementfactor	0.95					
	THD(typ.) THD	10%					
	Inrush current(Ipk) Ipk	40A/160US					
	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. exceed maximum rated load times 1.1~1.6					
	Over voltage protection						
	Over temperature protection	IC detect					



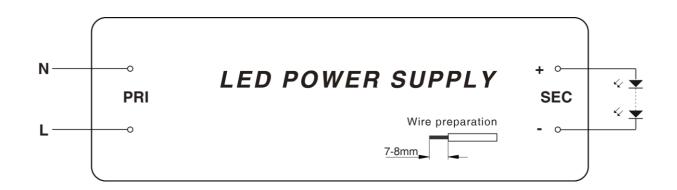
Protection	n Surge capacity	L-N: 1KV			
	Withstand voltage	Input-Output: 3750V/5mA/1min			
Ambient and Life	Ta(C)	-2045(See derating curve)			
	Tc max.(C)	max.90			
	Storage Temperature()	-40+80			
	Ambient humidity range	5%85%RH, Not condensing			
	Nominal life-time(hrs)	50'000@Ta			
	Dimensions (LWH) (mm)	170*44.5*28.2			
	Weight(g)	250			
	Casing material	Plastics			
Other	Housing colour	White			
	Type of protection	IP20			
	Protection class	Class II			
	Certificate	CE+TUV+RCM			
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 models 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)



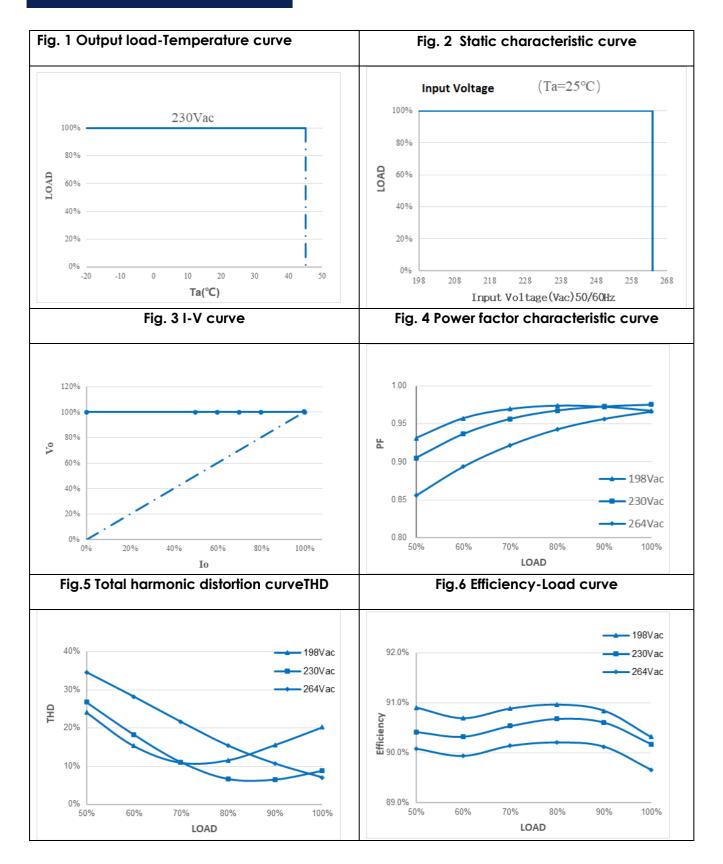
Wiring Diagram



AC	+ H03VVH2-F 20.75mm
DC	+ H03VVH2-F 20.75mm



Electrical curves





MCBS								
MCBS Model	B10	B13	B16	B20	C10	C13	C16	C20
SS60-12/24/48VL	14	18	22	28	23	31	38	48

Package

Model	Carton quantity(pcs)	Carton dimension(mm)	G.W./CTN(kg)	
SS60-12/24/48VL 25		235x275x165	5.2	

Revision history

Date	Rev.	Remark
2022.3.3	A1	Initial release.
2023.2.6	A2	Add 48V
2023.11.22	A3	Format update

