Constant Voltage LED Power Supply

SS60-12VF
SS60-24VF
SS60-48VF

Product description

SS60-12/24/48VF is a constant voltage LED driver for indoor use. Its input voltage range is 198-264Vac. It has a conversion efficiency of up to 89%. It adopts a fanless design and works in a natural cooling case temperature range of -20℃～+45℃. It has high power factor, low total harmonic distortion, low standby power consumption, and all-round protection functions. It not only greatly improves the reliability of the product, but also guarantees the product life cycle. This series of products is designed for LED lighting and is used for 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 environment
- Protection type: short circuit/overload/open circuit protection
- Plastic shell with internal glue filling
- Comply with the world's lighting equipment safety regulations
- Warranty 5 years

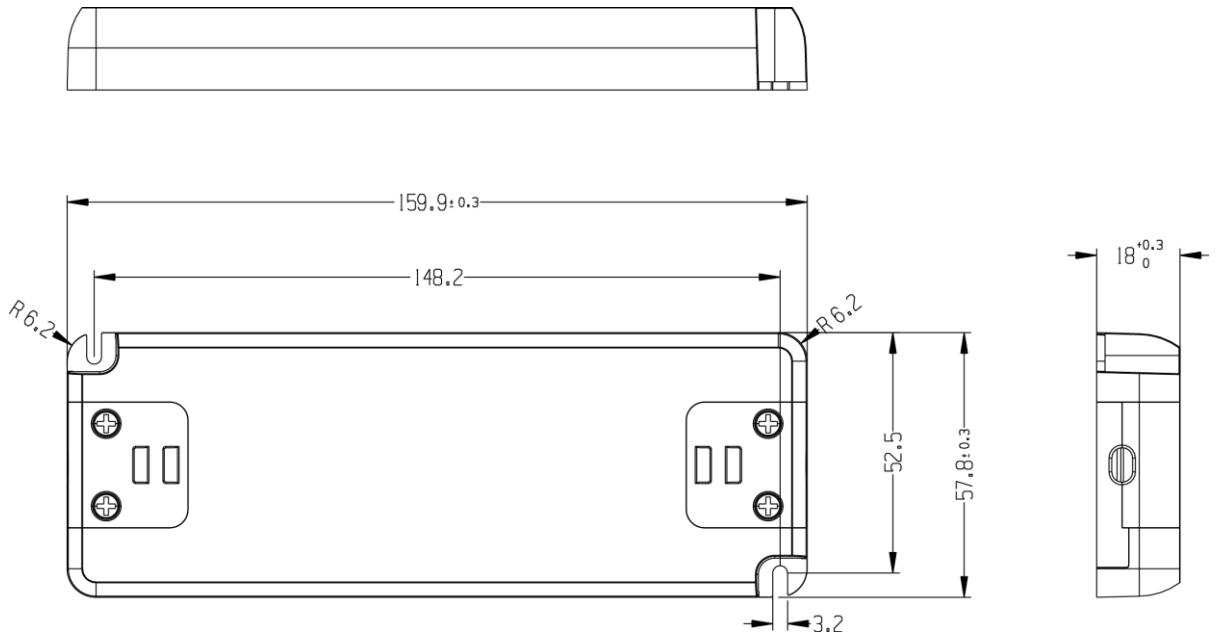
SNAPPY
KNOW HOW. NO LIMITS.

Specifications

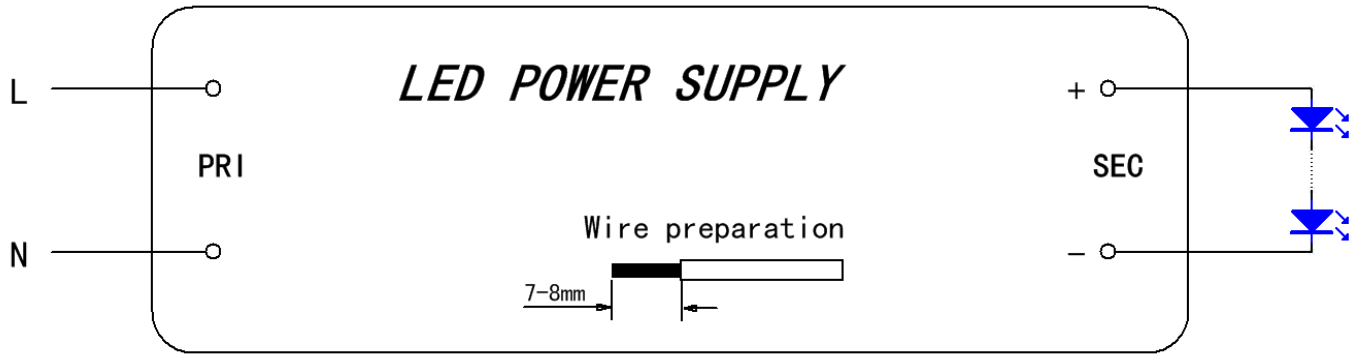
Model		SS60-12VF	SS60-24VF	SS60-48VF
Output	turn on time(S)	0.5S		
	output power(W)	60		
	output voltage(V)	12	24	48
	output voltage tolerance	5%		
	ripple voltage(mV)	3%		
	Line Regulation	3%		
	Load Regulation	3%		
	working current range(A)	0-5	0-2.5	0-1.25
	SVM	0.4		
	Pst	1		
	dimming type	NA		
	dimming range	NA		
Input	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)	<0.35		
	efciency (TYPE)	87%@full load,230Vac	88%@full load,230Vac	89%@full load,230Vac
	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	NA		
	Over temperature protection	Restart automatically after fault correction		

Protection	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...+85
	ambient humidity range	10%...90%RH, Not condensing
	nominal life-time(hrs)	50,000@Ta 35
Other	dimensions (LWH)(mm)	159mm*57.8mm*18mm
	weight(g)	250
	casing material	Plastics
	housing colour	White
	type of protection	IP20
	protection class	Class II
	certificate	TUV,CE
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	Terminal block for + H03VVH2-F 20.75mm
DC	Terminal block for + H05VVH2-F 21.0mm

Electrical curves

Fig. 1 Output load-Temperature curve

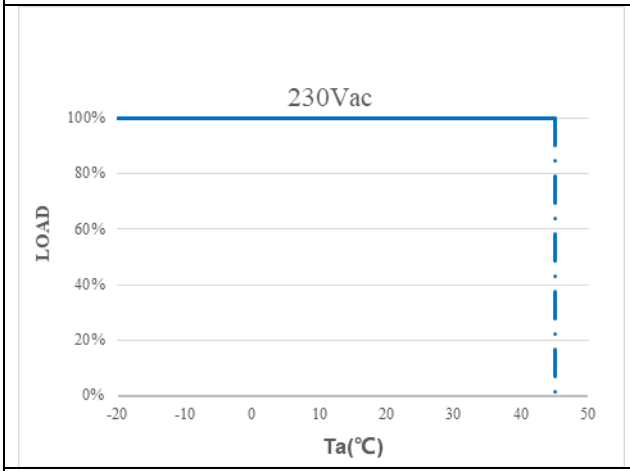


Fig. 2 Static characteristic curve

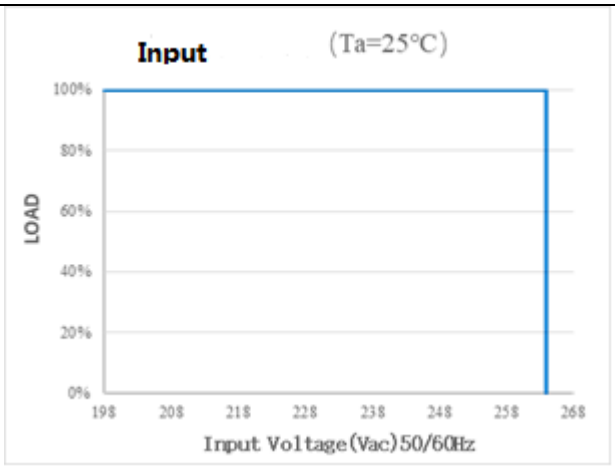


Fig. 3 I-V curve

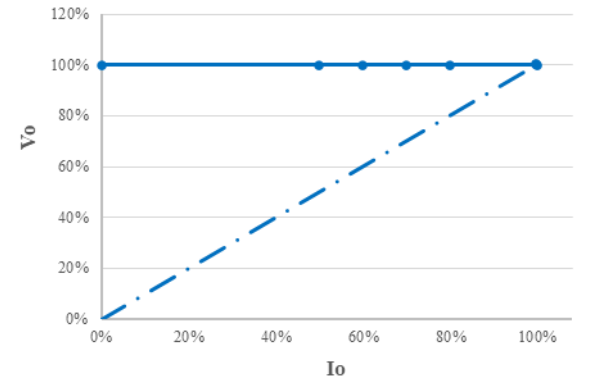


Fig. 4 Power factor characteristic curve

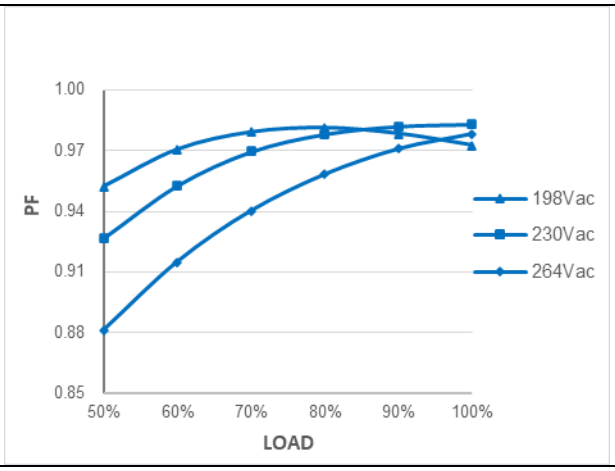


Fig.5 Total harmonic distortion curve

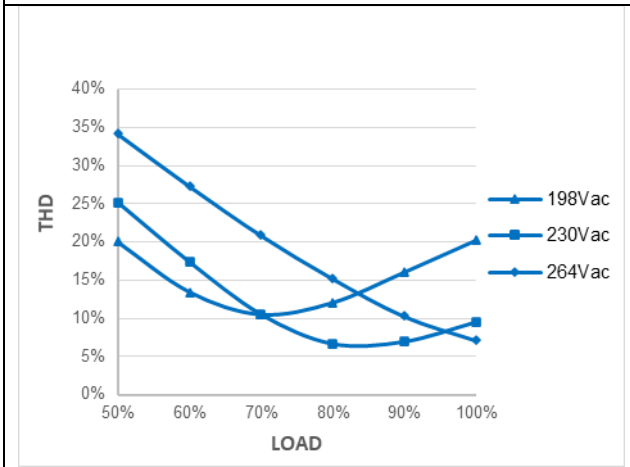
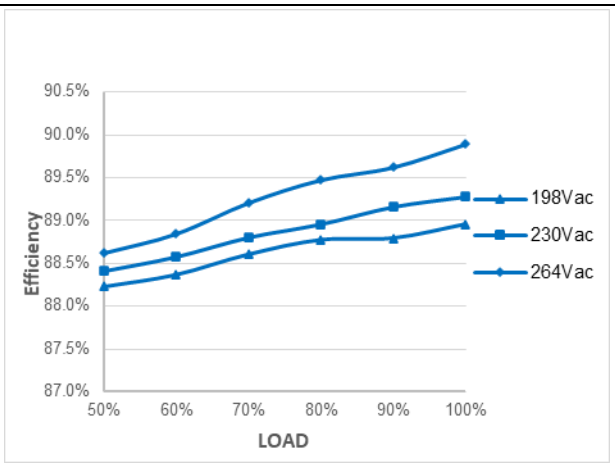


Fig.6 Efficiency-Load curve



MCBS

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

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Package

Model	Carton quantity(pcs)	Carton dimension(mm)	G.W./CTN(kg)
SS60-12/24/48VF			

Revision history

Date	Rev.	Remark
2022.03.03	A1	Initial release
2024.01.25	A2	Line and load regulation update