

Indoor LED Power Supply

















- . European AC input / (220-240VAC)
- . Built-in active PFC function
- . IP20
- . Suitable for dry environment
- . Protections: Short circuit / Over voltage / Over temperature
- . Adopt plastic shell and internal glue potting
- . Compliance to worldwide safety regulations for lighting
- . 5 years warranty

Description:

SS60 series is an indoor constant voltage power supply. Its input voltage range is 220-240Vac, with the high efficiency up to 89%, fanless design, working in the temperature range of - 20 ° C to + 45 ° C under free air convection. It has ultrahigh power factor, ultra-low total harmonic distortion, low standby power consumption, with all-round protection functions such as lightning protection and waterproof function, which not only greatly improves the reliability of the product, but also ensures the life cycle of product. This series are designed for LED lighting such as road lighting, floodlights, stage lighting and advertising lights etc, suitable in almost all kinds of applications where LED lamps can be installed. The product designed completely in accordance with world's lighting equipment safety regulations to ensure the safety of both user and luminaire system during installation.

Model

Model	Output voltage	Output current	Max. Output power	Current tolerance	Power factor (Typ.)	Efficiency (Typ.)
SS60-12VF	12V	0-5A	60W	±5%	0.95	87%
SS60-24VF	24V	0-2.5A	60W	±5%	0.95	88%
SS60-48VF	48V	0-1.25A	60W	±5%	0.95	89%

Remark: All parameters NOT specially mentioned are measured at 230VAC input, full load and 25 °C of ambient temperature.



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Input

Parameter	Min. value	Typical value	Max. value	Note
Rated input voltage	220 Vac	70	240Vac	
Input voltage	198 Vac		264Vac	The derating curve is shown in the figure
Input frequency	47Hz		63Hz	
Max. Input current			0.35A	230Vac , Full Load
Input inrush current			30A	230Vac/50Hz , Cold Start
Power factor	0.96	0.97		230Vac , Full Load
Total harmonic input		6%	8%	230Vac , Full Load
Leakage current			0.7mA	230Vac/50Hz , Full Load
Stand-by power consumption		0.4W	0.5W	230Vac/50Hz , No Load

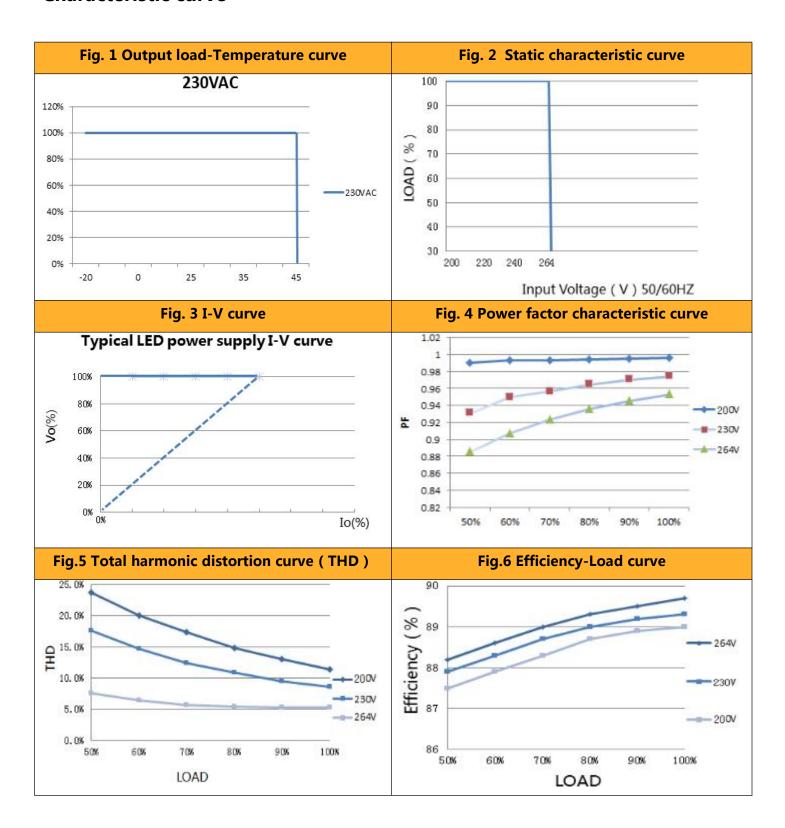
Output

Parameter	SS60-12VF	SS60-24VF	SS60-48VF	备注
	12.0VDC	24.0VDC	48.0VDC	The maximum
Output voltage				output power shall
				meet
				Po=Vo*Io=30W
Rated output current	5A	2.5A	1.25A	
Output current	0-5A	0-2.5A	0-1.25A	
Rated output power	60W	60W	60W	
Rated output efficiency	87%	88%	89%	230Vac
Output current tolerance		±5%		
Output voltage ripple	±3%		Full load (Test	
(PK-PK)				under 20M
				bandwidth)
Output current ripple (PK-				Full load (Test under
PK)				20M bandwidth)
Rise time	100mS			230Vac
Startup time	300mS			230Vac
Line regulation	±1%			full load
Load regulation	±1%			



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Characteristic curve





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Protection

Parameter		Conditions	Note	
			Recover	
	Over load	$1.1 \sim 1.6$ times rated load	automatically	
			when cancel	
			overload	
			Hiccup mode,	
Protection	Short circuit	Short circuit power≤0.5W	auto-recovery	
			after short circuit	
			removed	
	Over voltage	1.5 times of rated output voltage	Turn off input	
			voltage and restart	
	Over		Turn off input	
	temperature	110℃	voltage and restart	
			when temp drop	
			to normal	

Environment Requirement

Parameter	Min.	Тур.	Max.	Note
Working temp.	-20°C	25°C	+45℃	See Fig.2
Storage temp.	-40℃	25°C	+85℃	
Working humidity	10%RH		90%RH	
Storage humidity	5%RH		95%RH	
IP grade			IP20	
Cooling mode	Na	tural cooling		



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Safety&EMC standard

Certificate		Safety standards	Certification	Note
UL/CUL				
Т	UV	EN61347-1:2015		
		EN 61347-2-13:2014+A1	YES	
		EN62493:2015		
S	AA	AS/NZS 61347.2.13		
C	CCC			
	CE	EN 61347-2-13:2014 +A1	YES	
·	CL	EN61347-1:2015		
Safet	y test	Technical indexes	No	ote
	Input to	3750Vac/5mA	Reinforced in	sulation, no
	output	Max/60s	breakdown, r	no flashover
Dielectric	Primary to		Basic insulation	on, no
strength	ground		breakdown, r	no flashover
	Secondary		Functional in	sulation, no
	to ground		breakdown, r	no flashover
Insulation	Input to	≥10MΩ	Test volta	ge : 500Vdc
resistance	output			
Grounding resis				1min
Leakage current		≤0.75mA	264	Vac
EMI/EMS item		Standards	Ва	sis
Conduction CE		EN55015		
Radiation RE		EN55015		
Harmonics		EN IEC 61000-3-2	Clas	ss C

Others

Parameters	Condition	note
Lifetime	30,000 hours	230Vac , full load, TC. 75℃
MTBF	200,000hours	230Vac, full load, 25°C(MIL-HDBK-217F)
TC	90℃	
Warranty	5 years	
Weight	250g	
Dimensions	159mm * 57.8mm * 18mm	L x Wx H



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Mechanical Specification (Unit:mm)

