

Indoor LED Power Supply





Features:

- . European AC input (220-240VAC).
- . Built-in active PFC function.
- . IP20.
- . Suitable for dry environment.
- . Protections: Short circuit / Over temperature / Over voltage.
- . Adopt plastic case and internal glue potting.
- . Built-in lightning protection device, can meet the difference mode 1kV.
- . Comply with the world lighting equipment safety standards.
- . 5 years warranty.

Description:

SS150 series is an indoor constant voltage LED driver with an input voltage range of 220-240Vac, whose efficiency is up to 92%, it's working in the temperature range of - 20 ° C to + 45° C under free air convection. It has a high power factor, ultra-low total harmonic distortion, low standby power consumption, lightning protection and other comprehensive protection functions, which not only greatly improves the reliability of the product, but also guarantees the product life cycle. This series is designed for LED lighting and is used in indoor lighting applications. They are suitable for a wide range of applications in almost all kinds of environments where LED luminaires 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	Output voltage precision	Total harmonic distortion (Typ.)	Power factor (Typ.)	Efficiency (Typ.)
SS150-12VL	12V	0-11A	132W	±5%	5%	0.97	90%
SS150-24VL	24V	0-6.25A	150W	±5%	5%	0.97	92%
SS150-48VL	48V	0-3.12A	150W	±5%	5%	0.97	92%

Remark: All the parameters are measured at 230VAC input, full load and 25 $^{\circ}$ C of ambient temperature if they are not specially mentioned.



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Input:

Parameter	Min. value	Typical value	Max. value	Note
Rated input voltage	220 Vac		240Vac	Derating curve is shown in figure
Input voltage	198 Vac		264Vac	
Input frequency	47Hz		63Hz	
Max. Input current			0.9A	230Vac,Full Load
Input inrush current			65A	230Vac/50Hz, Cold Start
Power factor	0.95	0.97		230Vac,Full Load
DF		0.97		230Vac,Full Load
Total harmonic input		5%	10%	230Vac,Full Load
Leakage current			0.7mA	230Vac/50Hz,Full Load
Stand-by power consumption		0.4W	0.5W	230Vac/50Hz,No Load
QTY of 16A circuit breaker which be configured with the same type power supply	5pcs (Type B cir at 230 VAC.	rcuit breakers)/	8pcs(Type C ci	rcuit breakers) can be configured

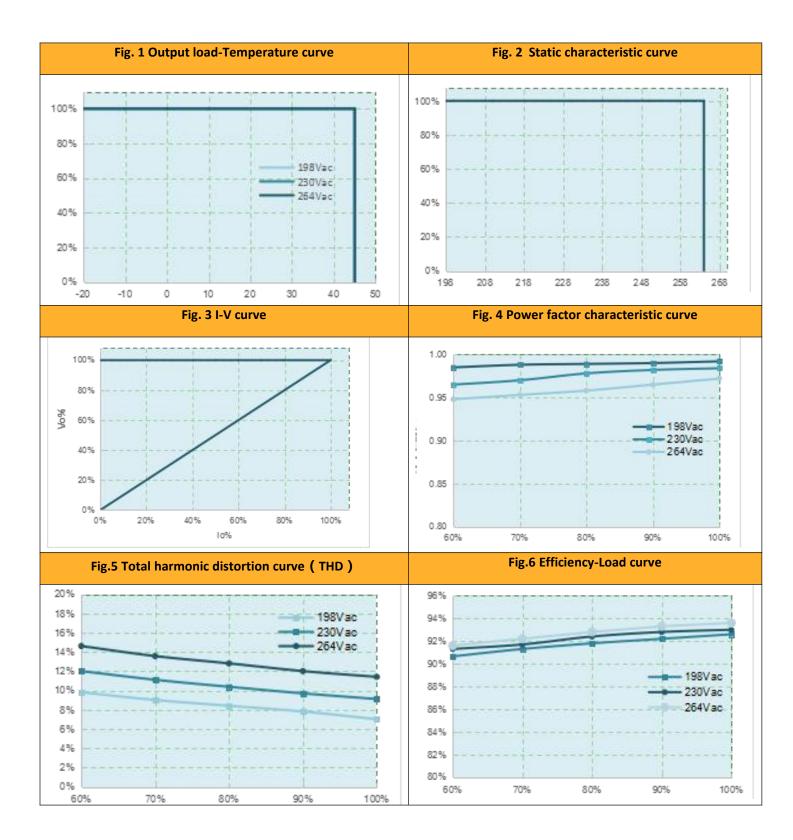
Output:

-			i e	
Parameter	SS150-12VL	SS150-24VL	SS150-48VL	Note
Output voltage	12.0VDC	24.0VDC	48.0VDC	
Rated output current	11A	6.25A	3.12A	
Output current	0-11A	0-6.25A	0-3.12A	
Rated output power	132W	150W	150W	
Rated output efficiency	90%	92%	92%	230Vac
Output voltage	±5%			
precision				
Output voltage ripple	±2%		Full load (Test under	
(PK-PK)			20M bandwidth)	
Output current ripple				Full load (Test under
(PK-PK)			20M bandwidth)	
Startup time	500mS			230V ac
Line regulation	±1%			full load
Load regulation	±1%			



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Characteristic Curve:





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Protection:

Parameter		Conditions	Note
	Over load	1.1-1.6 times rated load	Auto-recovery after overload removed.
	Short circuit	Short circuit power ≤0.5W	Hiccup mode, auto-recovery after short circuit removed.
Protection	Over voltage	1.5 times of rated output voltage	Turn off the input voltage and recover after restart.
	Over temperature	110 ℃	Turn off the input voltage, the temperature can be restored after return to
	Over temperature	110 °C	the tempera

Environment Requirement:

Parameter	Min.	Тур.	Max.	Note
Working temp.	-20℃	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	Natural cooling			

Safety&EMC standard:

Certificate	Safety standards	Certification	Note
UL/CUL			
TUV	EN61347-1:2015		
	EN 61347-2-13:2014+A1		
SAA	AS/NZS		
	61347.2.13		
CCC			
CE	EN 61347-2-13:2014 +A1		
CL .	EN61347-1:2015		



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Safety test		Qualification	Note
	Input to	3750Vac/5mA Max/60s	Reinforced insulation,no breakdown,no
B. I	output		flashover
Dielectric compressive	Primary to		Basic insulation,no breakdown, no
strength	ground		flashover
	Secondary		Functional insulation, no breakdown, no
	to ground		flashover
Insulation	Input to	≥10MΩ	Test voltage:500Vdc
resistance	output		
Grounding resistance			25A/1min
Leakage current		≤0.75mA	264Vac
EMI/EMS item		Standard/Level	Data
Conduction CE		EN55015	
Radiation RE		EN55015	
Harmonics		EN IEC 61000-3-2	Class C

Others:

Parameters	Condition	note
Lifetime	50,000 hours	230Vac,full load, case Temp. 75 $^{\circ}{\mathbb C}$
MTBF	200,000 hours	230Vac,full load, environment Temp. 25 $^{\circ}$ (MIL-HDBK-217F)
TC	90℃	
Warranty	5 years	
Weight	420g	
Dimensions	179.4mm * 62.5mm * 30.6mm	LxWxH



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Mechanical Specification (Unit: mm)

