



SNAPPY

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SNAPPY Optoelectronics Co., Ltd

Indoor LED Power Supply



Features

European AC input / (220-240VAC)

- . Built-in active PFC function

P20

- . 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 :

SS75/SES75 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 ultra-high power factor, ultra-low total harmonic distortion, low standby power consumption, with all-round protection functions , which not only greatly improves the reliability of the product, but also ensures the life cycle of product. This series of products is designed for LED lighting used in indoor applications. 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.)
SES75-12VF	12V	0-6.25A	75W	±5%	0.97	88%
SES75-24VF	24V	0-3.125A	75W	±5%	0.97	89%
SS75-12VF	12V	0-6.25A	75W	±5%	0.97	88%
SS75-24VF	24V	0-3.125A	75W	±5%	0.97	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		240Vac	The derating curve is shown in the figure
Input voltage	198 Vac		264Vac	
Input frequency	47Hz		63Hz	
Max. Input current			0.46A	198Vac , Full Load
Input inrush current			75A	230Vac/50Hz , Cold Start
Power factor	0.95	0.97		230Vac , Full Load
Total harmonic input		8%	10%	230Vac , Full Load
Leakage current			0.7mA	230Vac/50Hz , Full Load
Stand-by power consumption		0.43W	0.5W	230Vac/50Hz , No Load

Output

Parameter	SES75/SS75-12VF	SES75/SS75-24VF	备注
Output voltage	12.0VDC	24.0VDC	The maximum output power shall meet $P_o=V_o \cdot I_o=75W$
Rated output current	6.25A	3.125A	
Output current	0-6.25A	0-3.125A	
Rated output power	75W	75W	
Rated output efficiency	88%	89%	230Vac
Output current tolerance	$\pm 5\%$		
Output voltage ripple (PK-PK)	5%		Full load (Test under 20M bandwidth)
Output current ripple (PK-PK)	---		Full load (Test under 20M bandwidth) 230Vac
Rise time	---		
Startup time	350mS		230Vac
Line regulation	2%		full load
Load regulation	2%		



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Characteristic curve

1.SES75-12VF、SS75-12VF

Fig. 1 Output load-Temperature curve

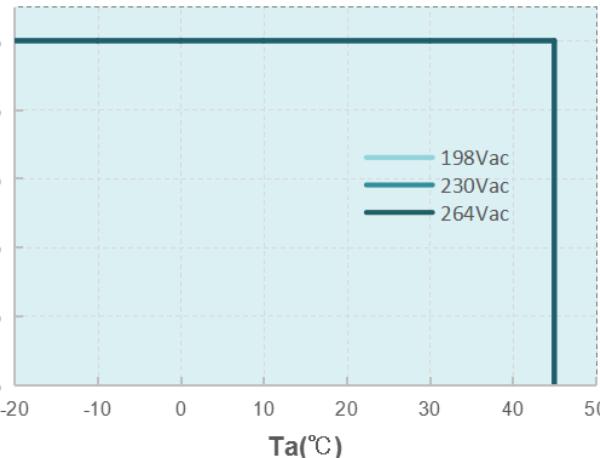


Fig. 2 Static characteristic curve

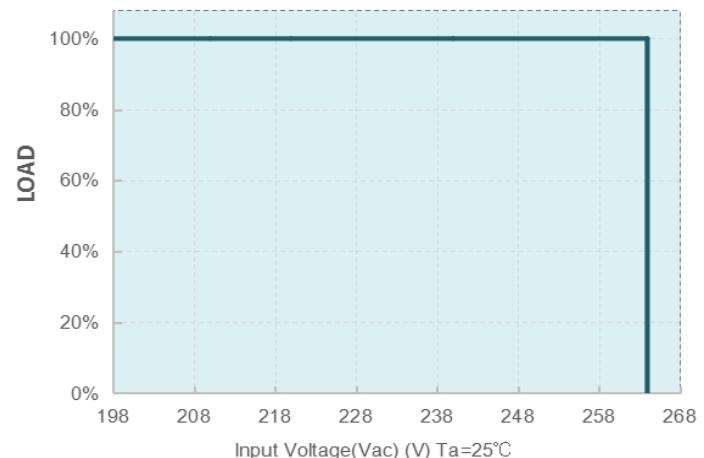


Fig. 3 I-V curve

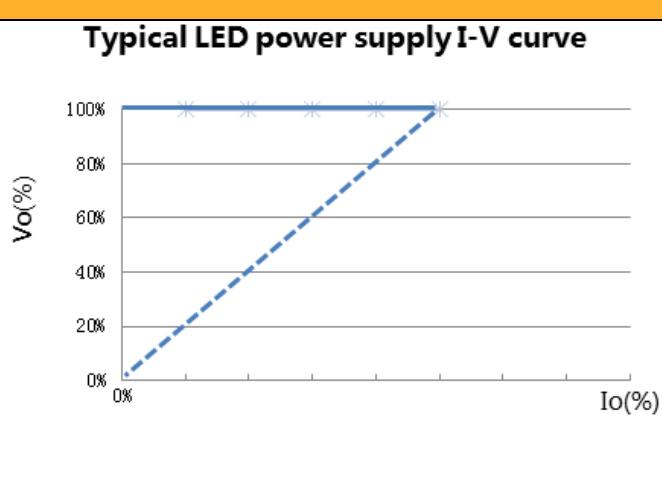


Fig. 4 Power factor characteristic curve

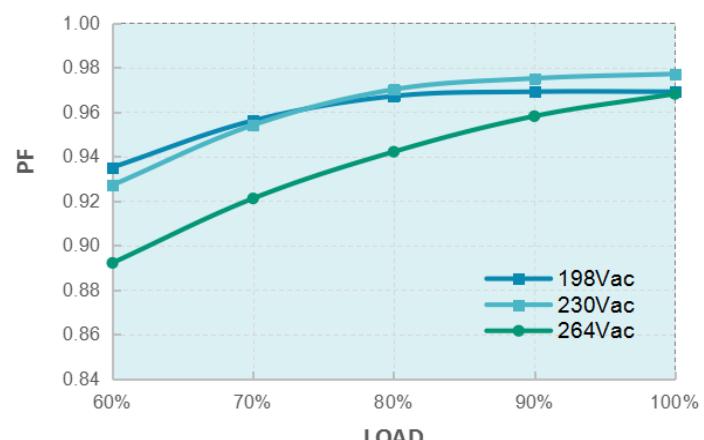


Fig.5 Total harmonic distortion curve (THD)

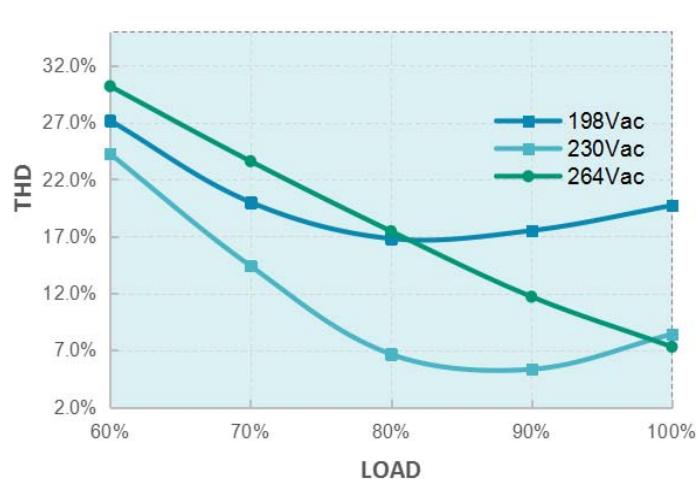
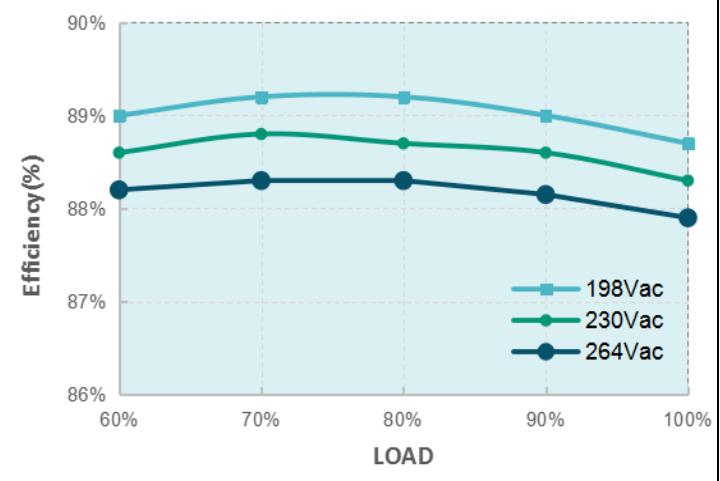


Fig.6 Efficiency-Load curve





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Characteristic curve

2.SES75-24VF、SS75-24VF

Fig. 1 Output load-Temperature curve

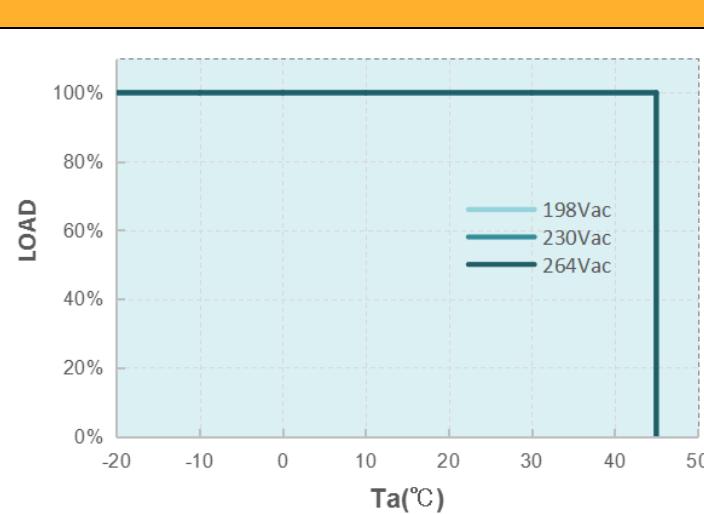


Fig. 2 Static characteristic curve



Fig. 3 I-V curve

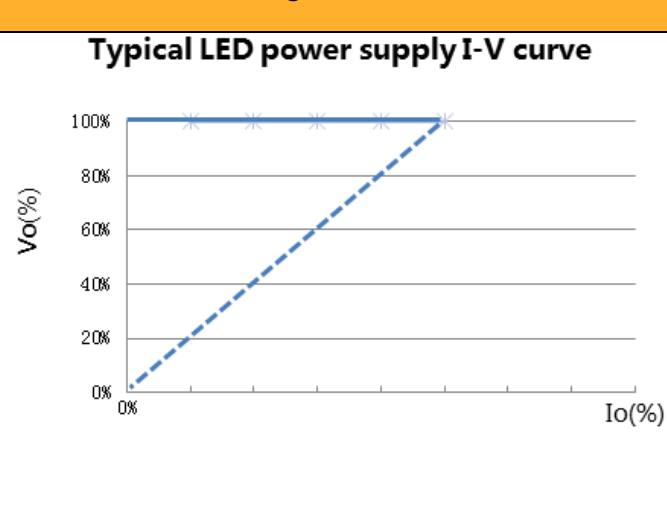


Fig. 4 Power factor characteristic curve

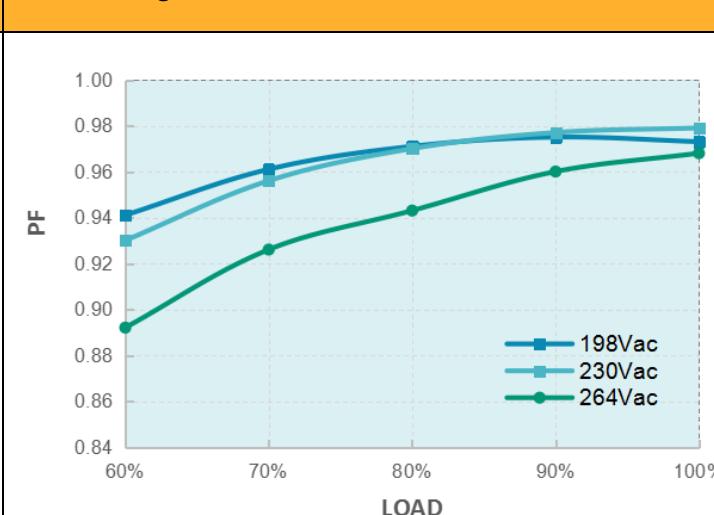


Fig.5 Total harmonic distortion curve (THD)

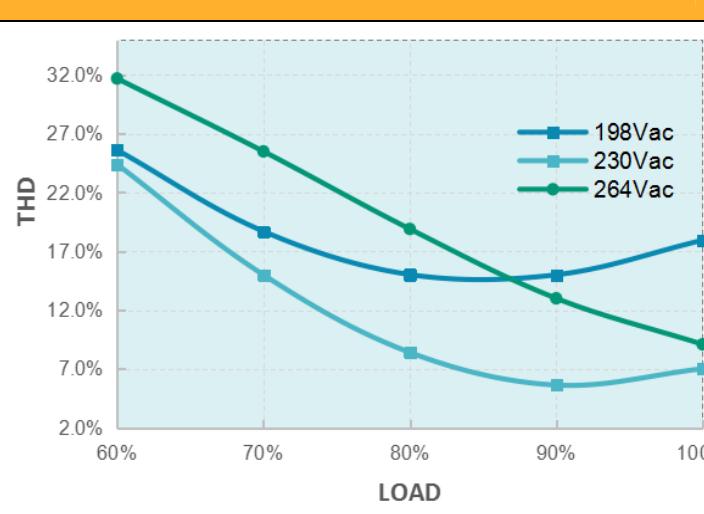
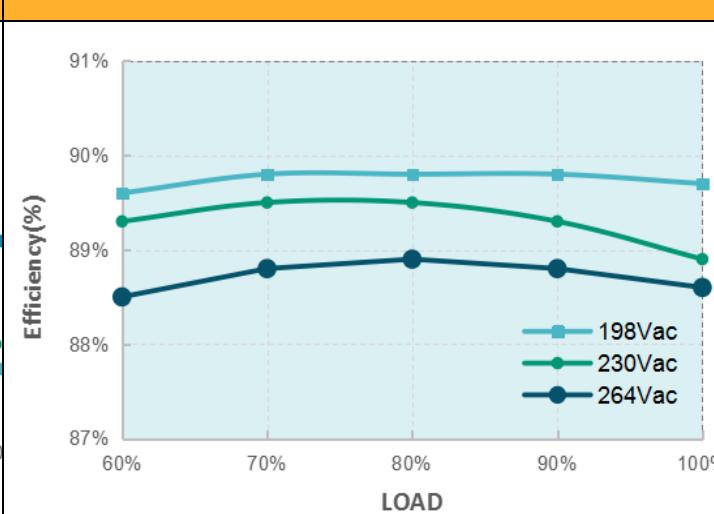


Fig.6 Efficiency-Load curve





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Protection

Parameter		Conditions	Note
Protection	Over load	1.1 ~ 1.4 times rated load	Recover automatically when cancel overload
	Short circuit	Short circuit power≤0.8W	Hiccup mode, auto-recovery after short circuit removed
	Over voltage	1.5 times of rated output voltage	Turn off input voltage and restart
	Over temperature	120°C	Turn off input voltage and restart when temp drop to normal

Environment Requirement

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



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Safety&EMC standard

Others

Certificate	Safety standards		Certification	Note		
UL/CUL	---					
TUV	EN61347-1:2015 EN 61347-2-13:2014+A1 EN62493:2015		√			
SAA	AS/NZS 61347.2.13					
CCC	---					
CE	EN 61347-2-13:2014 +A1 EN61347-1:2015		√			
Safety test	Technical indexes		Note			
Dielectric strength	Input to output	3750Vac/5mA Max/60s		Reinforced insulation, no breakdown, no flashover		
	Primary to ground	--		Basic insulation, no breakdown, no flashover		
	Secondary to ground	--		Functional insulation, no breakdown, no flashover		
Insulation resistance	Input to output	≥10MΩ		Test voltage : 500Vdc		
Grounding resistance		--		25A/1min		
Leakage current		≤0.75mA		264Vac		
EMI/EMS item	Standards		Basis			
Conduction CE	EN55015					
Radiation RE	EN55015					
Harmonics	EN IEC 61000-3-2		Class C			
Parameters	Condition	note				
Lifetime	50,000 hours	230Vac , full load, Case Temp. 75 °C				
MTBF	200,000hours	230Vac, full load, 25 °C(MIL-HDBK-217F)				
TC	90 °C					
Warranty	5 years	Case Temp 75 °C				
Weight	255g					
Dimensions	177*56.4*17.2(mm)		L x Wx H			

Mechanical Specification (Unit : mm)

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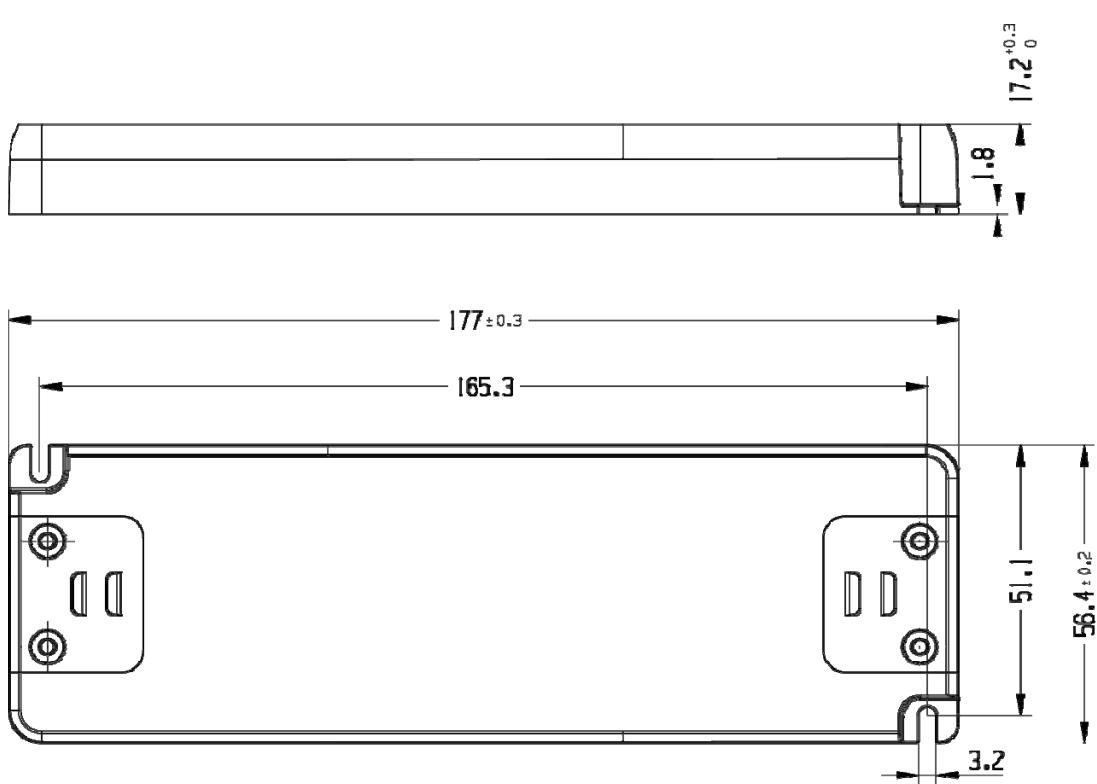


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**Remark :**

AC input cable	Terminal block , H03VVH2-F 2×0.75mm ²
DC output cable	Terminal block, H05VVH2-F 2×1.0mm ²