

Indoor LED Power Supply



Features

- . European AC input (220-240VAC)
- . Built-in active PFC function
- . IP44
- . Protections: Short circuit / Over temperature / Over voltage
- . Comply with the world lighting equipment safety standards
- . Warranty 5 years

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Description

SS40 series is an indoor constant voltage LED driver with an input voltage range of 220-240Vac, whose efficiency is up to 87%, fanless design and 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, with all-round protection functions, which not only greatly improve the reliability of the product, but also guarantee the product life cycle. This series of products is designed for LED lighting, suitable in almost all kinds of indoor applications where LED lamps can be installed. They comply with the World Safety standard for lighting equipment and ensure the safety of the user and the luminaire system during installation.

Model

Model	Rated output voltage	Rated output current	Max. output power	Output voltage tolerance	Power Factor (Typ.)	Efficiency (Typ.)
SS40-12VFP	12V	0-3.33A	40W	±5%	0.97	86%
SS40-24VFP	24V	0-1.67A	40W	±5%	0.97	87%

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
Input voltage	198 Vac		264Vac	figure
Input frequency	47Hz		63Hz	
Max. Input current			0.25A	198Vac, Full Load
Input inrush current			30A	230Vac/50Hz, Cold Start
Power factor	0.95	0.97		230Vac, Full Load
Total harmonic input		7%	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	SS40-12VFP	SS40-24VFP	Note
Output voltage	12.0VDC	24.0VDC	Max. Output power should
			compliance to
			Po=Vo*Io=40W
Rated output current	3.33A	1.67A	
Output current	0-3.33A	0-1.67A	
Rated output power	40W	40W	
Rated output efficiency	86%	87%	230Vac
Output voltage tolerance	:	±5%	
Output voltage ripple (PK-PK)	:	±3%	Full load (Test under 20M
			bandwidth)
Output current ripple (PK-PK)			Full load (Test under 20M
Rise time	10	00mS	bandwidth) 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	
	Over load	1.1~1.3 times rated load	Auto-recovery after overload removed	
Protection	Short circuit	Short circuit power≤0.5W	Hiccup mode, auto-recovery after short circuit removed	
	Over voltage	1.5 times of rated output voltage	Turn off the input voltage, can be restored after restart.	
	Over	110℃	Turn off the input voltage, can be	
	temperature		restored after the temperature	
			returns to normal level.	

Environment Requirement

Parameter	Min.	Тур.	Max.	Note
Working temp.	-20°C	25°C	+45℃	See Fig.2
Storage temp.	-40°C	25°C	+85℃	
Working humidity	10%RH		90%RH	
Storage humidity	5%RH		95%RH	
IP grade		IP44	IP44	
Cooling mode	Natural cooling			



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Safety&EMC standard

Certificate		Safety standards	Certification	Note	
UL/CUL					
Т	ŪV	EN61347-1:2015			
		EN 61347-2-13:2014+A1			
		EN62493:2015			
S	SAA	AS/NZS 61347.2.13			
C	CC				
	<u>сг</u>	EN 61347-2-13:2014 +A1			
	CE	EN61347-1:2015			
	Safety test	Technical indexes	Να	ote	
Dielectric	Input-	3750Vac/5mA	Reinforced	Reinforced insulation, no	
strength	Output	Max/60s	breakdowr	breakdown, no flashover	
	Primary-		Basic in	sulation, no	
	Ground		breakdowr	n, no flashover	
-	Secondary		Functional	insulation, no	
	- Ground		breakdowr	n, no flashover	
Insulation	Input-	≥10MΩ	Test vo	ltage : 500Vdc	
resistance	Output				
Ground resist	tance		25A/	25A/1min	
Leakage current		≤0.75mA	264	Vac	
EMI/EMS item		Standards	Ba	sis	
Conduction CE		EN55015			
Radiation RE		EN55015			
Harmonics		EN IEC 61000-3-2	Cla	ss C	

Others

Parameters	Condition	Note
Lifetime	30,000 hours	230Vac , full load, TC. 75°C
MTBF	200,000 hours	230Vac, full load, 25℃ (MIL-HDBK-217F)
ТС	85℃	
Warranty	5 years	
Weight	160g	
Dimensions	158*51*17.3mm	L x W x H

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Mechanical Specification (Unit : mm)

