

SOSEN LED Driver, Your Smart Choice

Specifications

SS-350UV Series LED Driver

Model: SS-350UV-XX

Description: 350W LED Driver

Rev.: V05

Release Date: 2026-06-15

SS-350UV Series LED Driver

SOSEN
LED DRIVER



LED DRIVER

UV Series



Features:

- Efficiency up to 88%
- Selectable 115VAC or 230VAC input
- Adjustable O/P voltage and current
- Non-isolated dimming: 0-10V, PWM, Resistor
- Dim-to-Off
- Protections: SCP/OTP/OVP/OPP
- Fan cooling by temperature controlled
- Ultra-thin metal shell
- Warranty: 3 years

Description:

SS-350UV series are 350W constant current LED Driver with wide O/P voltage and adjustable O/P voltage and current. It has high efficiency, compact housing, good cooling, all-around protections. LED luminaries manufacturers can design luminaries easily and reduce cost.

Applications:

UVLED Exposure Unit, UVLED Printer, UVLED Tunnel device, UVLED Curing Equipment, UVLED Driver, UVLED Plant lighting

Model List:

Model	Rated AC Input Range	Max. Pout	O/P Voltage Range	Adjustable O/P Current Range	Standby Power	Eff.(Typ.)	Max.Tc
SS-350UV-48C	100-120Vac	350W	24-48V	3.65-7.3A	6W	88%	75°C
	200-240Vac						
SS-350UV-75C	100-120Vac	350W	54-75V	1.6-4.67A	6W	88%	75°C
	200-240Vac						

Note:

1. Set AC input switch (115VAC or 230VAC) according to the AC input voltage before AC ON;
2. Default tested at 220Vac, full load, Ta 25°C.

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Input Characteristics:

Parameter	Min.	Typ.	Max.	Remark
Rated AC Input Range	100Vac		120Vac	Voltage selector= 115
	200Vac		240Vac	Voltage selector= 230
AC Input Range	90Vac		132Vac	Voltage selector= 115
	180Vac		264Vac	Voltage selector= 230
Input Frequency Range	47Hz	50/60Hz	63Hz	
Max Input Current			8A	100Vac, Full load
			4.5A	200Vac, Full load
Max Inrush Current (115Vac Or 230Vac)			100A	Cold start
Standby Power			6W	220Vac/50Hz, Dim off

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Output Characteristics:(SS-350UV-48C)

Parameter	Min.	Typ.	Max.	Remark
Rated O/P Voltage	24V		48V	
No Load Voltage			57V	
Rated O/P Current		7.3A		
Adj. O/P Current (AOC)Range	3.65A		7.3A	
O/P Power			350W	
Efficiency	86.0%	88.0%		Full load@230Vac
	84.0%	86.0%		Full load@115Vac
Current accuracy	-5%		+5%	
O/P Current Ripple(PK-PK)			5%	Full load, Bandwidth limitation 20MHz, room temperature
Line Regulation	-1%		+1%	
Load Regulation	-2%		+2%	
Current Overshoot			10%	Full load
Start-up Time		1S	2S	
Temperature Coefficient	-0.1%/°C		+0.1%/°C	Ta:0°C~60°C

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Output Characteristics:(SS-350UV-75C)

Parameter	Min.	Typ.	Max.	Remark
Rated O/P Voltage	54V		75V	
No Load Voltage			90V	
Rated O/P Current		4.67A		
Adj. O/P Current (AOC)Range	1.6A		4.67A	
O/P Power			350W	
Efficiency	86.0%	88.0%		Full load@230Vac
	84.0%	86.0%		Full load@115Vac
Current accuracy	-5%		+5%	
O/P Current Ripple(PK-PK)			5%	Full load, Bandwidth limitation 20MHz, room temperature
Line Regulation	-1%		+1%	
Load Regulation	-2%		+2%	
Current Overshoot			10%	Full load
Start-up Time		1S	2S	
Temperature Coefficient	-0.1%/°C		+0.1%/°C	Ta:0°C~60°C

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Other Characteristics:

Parameter		Min.	Typ.	Max.	Remark
0-10V Dimming	Dim Vmax	0V		10V	DIM+ source current 100uA.
	Dim Range	10%loset		100%loset	Dimming prohibits reverse connection
	Dim on	0.7V	0.8V	0.9V	
	Dim off	0.5V	0.6V	0.8V	
PWM Dimming	PWM High	9.8V		10.2V	
	PWM Low	0V		0.4V	DIM+ source current 100uA.
	Frequency	1KHz		2KHz	Dimming prohibits reverse connection
	PWM Duty	0%		100%	
	Dim Range	10%loset		100%loset	
	Turn on duty	6%	7%	9%	
	Off duty	5%	6%	7%	
Resistor Dimming	Resistance	0Kohm		100Kohm	DIM+ source current 100uA.
	Dim Range	10%loset		100%loset	
	Turn on Resistance	5.5Kohm	7Kohm	11Kohm	
	Off Resistance	2Kohm	4Kohm	5.5Kohm	
Protective function	OTP	75°C	85°C	95°C	>Tc Typ., O/P off <Tc Min., O/P recovery
	OVP-48C	57V		63V	Hiccup mode
	OVP-75C	89V		95V	Hiccup mode
	SCP	Driver will not be damaged			1, Current mode; 2, If O/P off, driver is in OTP mode
PS-ON level signal				24V	Turn-on current <5mA, PS-ON+ /PS-ON-Reverse connection or single-pole open circuit is strictly prohibited
PS-ON signal turn-on delay				50mS	Full load, PS-ON≥6V time to output current up to 90%
Fan on temperature		50°C			RT3 temperature
Fan off temperature				40°C	
Lifetime	Tc≤50°C	30,000 hours			80% load
MTBF		200,000 hours			220Vac, Full load, Ta=25°C (MIL-HDBK-217F)
Warranty		3 years			TC:50°C, 80% load
Net Weight		690g			
Dimension		224.5mm*115mm*30mm			L x W x H

Note: All the parameters above are tested Ta 25°C and LED load, unless specified.

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Environmental Requirements

Parameter	Min.	Typ.	Max.	Remark
Operating Temperature(Ta)	-15°C	25°C	+60°C	Ambient temperature
Storage Temperature	-40°C	25°C	+85°C	
Operation Humidity	20%RH		90%RH	Non-condensing
Storage Humidity	10%RH		95%RH	Non-condensing
Altitude	-65m		3000m	
Cooling method	Fan cooling			Don't block the fan duct when assembly driver

Safety and EMI/EMS Standards

Certification	Standard	Status	Remark
UL/cUL	UL60950		
TUV	EN 60950		
CCC	GB 4943.1-2011		

EMI/EMS	Criterion	Remark
Conduction Emission	/	
Radiation Emission	/	
Harmonic Current Emissions	/	
Surge	IEC/EN61000-4-5	DM: 1kV,CM: 2kV,Criterion B

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Safety Test Items:

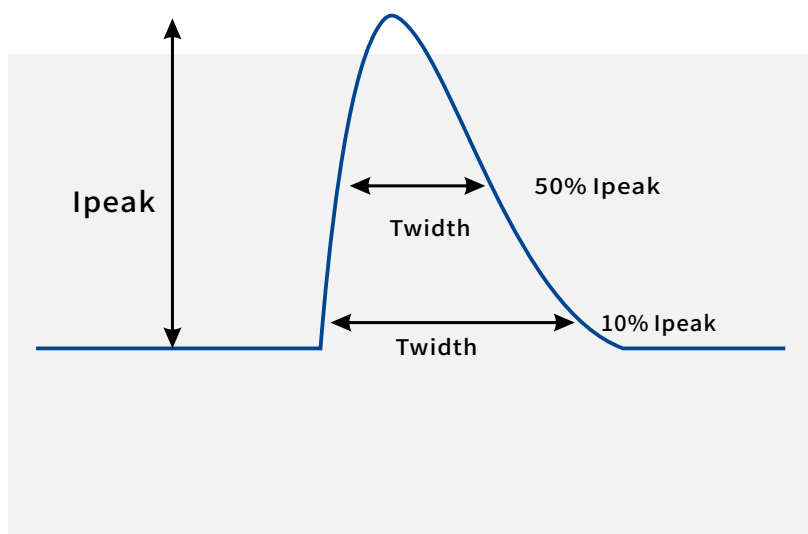
Safety Test Items	Technical Indicators	Remark
Insulation Requirements	Safety Test Requirements	
Input-Output	3000Vac/10mA	Reinforced insulation
Input-Case	1500Vac/10mA	Basic insulation
Input-Dim	1500Vac/10mA	Basic insulation
Output-Case	500Vac/10mA	Basic insulation
Insulation Resistance	$\geq 10M\Omega$	Input-Output, Test voltage: 500Vdc
Ground Resistance	$\leq 0.1\Omega$	25A/1min
Leakage Current	$\leq 2mA$	240Vac

NOTE:

1. Please short Line and Neutral, V+ and V- ,DIM+ and DIM- when Hi-pot test.

Performance Curves:

Input Inrush Current

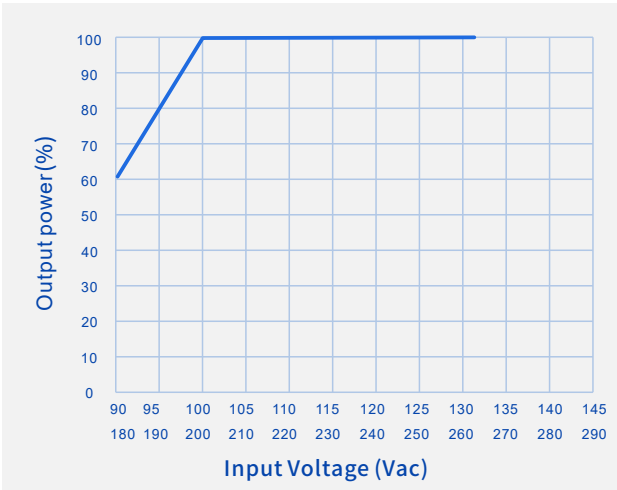


Vin	Ipeak	T(@10% of Ipeak)	T(@50% of Ipeak)
115Vac	100A	1580uS	
230Vac	100A		750uS

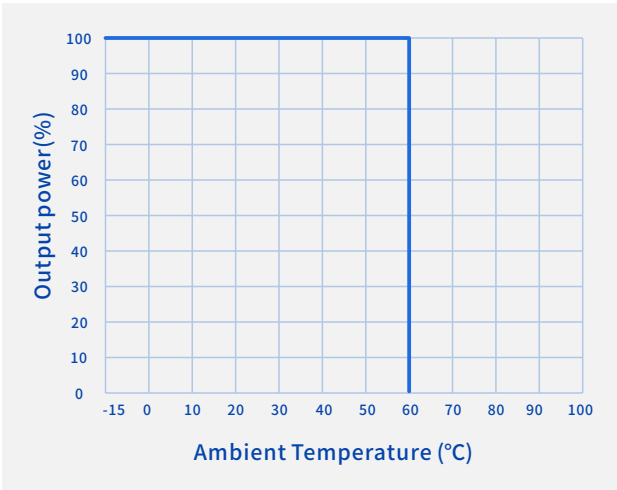
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Performance Curves:

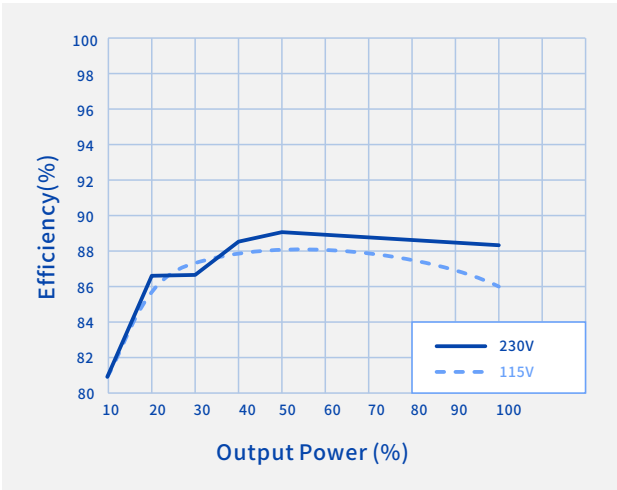
Output Power Vs. Input Voltage



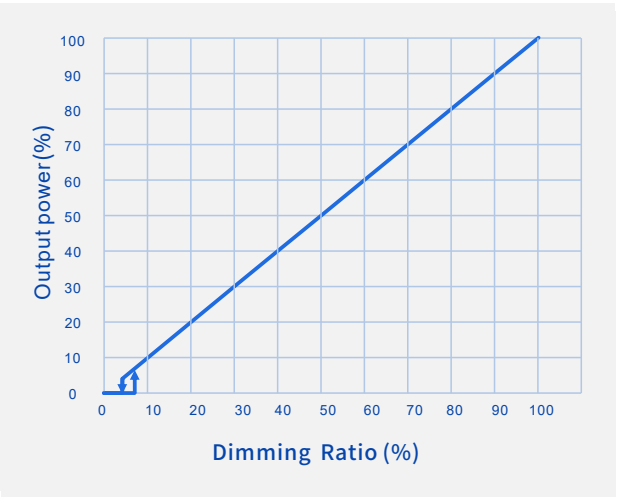
Output Power Vs. Ambient Temperature



Efficiency Vs. Output Power

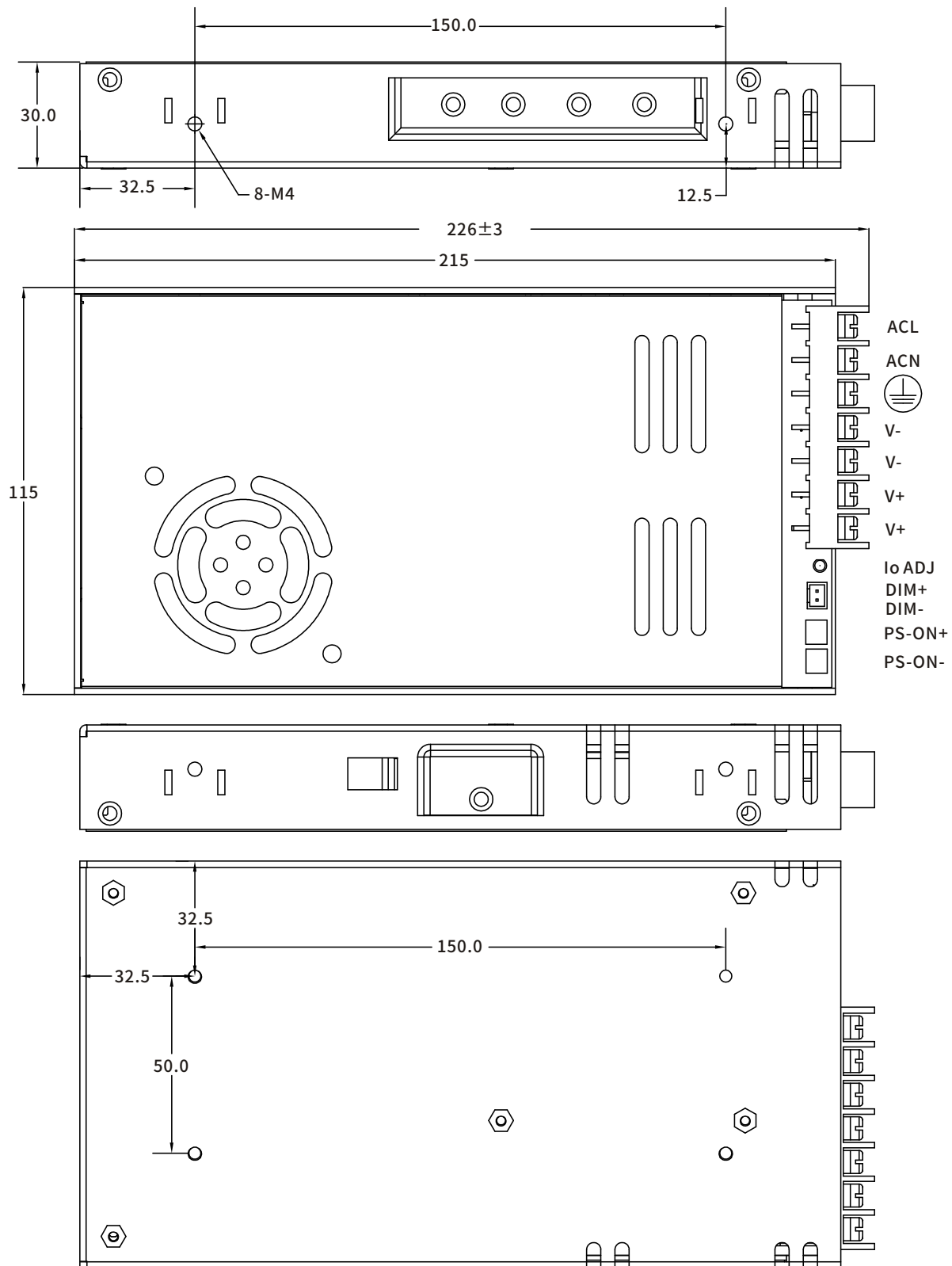


Output Power Vs. Dimming Signal



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Mechanical Characteristics(Unit: mm)



Note: M4 * 3 screws are used for the 4 mounting holes on the bottom surface, and M4 * 4 screws are used for the 4 mounting holes on the side surface; the definition of the terminal pins is shown in the figure

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Input voltage selection switch description

115/230V is selected by switch
Before power on please check
input voltage avoiding damage

Note: When the switch is selected at 115, the corresponding input voltage is 90 ~ 132Vac; when the switch is selected at 230, The corresponding input voltage is 180 ~ 264Vac; please don't use it by mistake to avoid damage to the power supply.

Package

- Outside carton dimension: L×W×H=495mm×385mm×162mm;
- 18PCS/Carton;
- Net weight/Piece: 0.69kg;Gross weight/Carton: 14.32kg;
- Please refer to the product name, model number, manufacturer identification, QC PASS, manufacturing date on the package.

Transportation

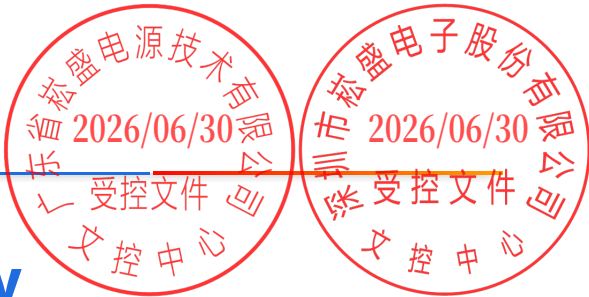
Packaging is designed suitable for transportation by trucks, vessels and flights. The products should be avoided direct sunlight and rain, loaded/unloaded with caution.

Storage

The product storage meets the standard of the GB 3873—83.
Products should be rechecked if stored for over 1 year before assembly.

RoHS

Products comply with RoHS Directive (2011/65/EU) and amendment 2015/863/EU.



Revision History

Version	Description of Update	Updated Date	Remark
V00	Original Release	2020/01/06	
V01	Delete Altitude Note	2020/07/27	
V02	Update Model	2020/12/11	
V03	Add PS-ON level signal	2022/05/06	
V04	Add PS-ON Signal Turn-on Delay	2022/08/18	
V05	Add model SS-350UV-75C	2026/06/15	