

# YSD150S SERIES 150W



Yingjiao's step shape power family are designed with ultra-slim plastic housing and for full range AC input from 90V AC to 264V AC.

The series are isolation Class II Level, achieving high efficiency and low no-load power consumption. They provide adjustable DC output voltage and operate in wide temperature range.

The good performance can be used for building automation, household and industrial control systems etc.



## Features



Isolation Class II



DC Output Voltage Adjustable



Ultra Slim Step Shape



Over Voltage Category II



Protection:Short Circuit/Overload/  
Over Voltage



Three Years Warranty

## Model Information

Yingjiao Part number	DC VOLTAGE	RATED CURRENT	RATED POWER
YSD150S-12	12V	11.3A 10.2A	135.6W/230V AC 122.4W/115V AC
YSD150S-15	15V	9.5A 8.55A	142.5W/230V AC 128.3W/115V AC
YSD150S-24	24V	6.25A 5.3A	150.0W/230V AC 127.4W/115V AC
YSD150S-48	48V	3.12A 2.72A	153.6W/230V AC 130.6W/115V AC

## Input

<b>VOLTAGE RANGE</b>	90 ~ 264VAC 127 ~ 370VDC
<b>FREQUENCY RANGE</b>	47~ 63Hz
<b>INRUSH CURRENT</b>	COLD START 35A/115VAC 70A/230VAC
<b>AC CURRENT</b>	3A/115VAC 1.6A/240VAC
<b>EFFICIENCY</b>	89.0% YSD150S-12 89.5% YSD150S-15 90.5% YSD150S-24 90.5% YSD150S-48

## Output

<b>RIPPLE &amp; NOISE</b>	100mVp-p	YSD150S-12
	120mVp-p	YSD150S-15
	150mVp-p	YSD150S-24
	200mVp-p	YSD150S-48
<b>VOLTAGE ADJ. RANGE</b>	10.8~13.8V	YSD150S-12
	13.5~18.0V	YSD150S-15
	21.6~29.0V	YSD150S-24
	43.2~55.2V	YSD150S-48
<b>VOLTAGE TOLERANCE</b>	± 2.0%	YSD150S-12
	± 2.0%	YSD150S-15
	± 2.0%	YSD150S-24
	± 2.0%	YSD150S-48
<b>LINE REGULATION</b>	± 1.0%	
<b>LOAD REGULATION</b>	± 1.0%	
<b>SETUP, RISE TIME</b>	500ms, 60ms/100-240VAC at full load	
<b>HOLD UP TIME (Typ.)</b>	30ms/230VAC, 12ms/115VAC at full load	

## Protection

<b>OVER LOAD</b>	105 ~ 135% rated output power	
	Hiccup mode when output voltage <50%, recovers automatically after fault condition is removed	
	Constant current limiting within 50%~100% rated output voltage, recovers automatically after fault condition is removed	
<b>OVER VOLTAGE</b>	14.2~16.2V	YSD150S-12
	18.8~22.5V	YSD150S-15
	30.0~36.0V	YSD150S-24
	56.5~64.8V	YSD150S-48
	Protection type : Shut down o/p voltage, re-power on to recover	

## Environment

<b>WORKING TEMP.</b>	-20 °C ~ +70 °C
<b>Working Humidity</b>	20 ~ 90% RH Non-Condensing
<b>STORAGE TEMP, HUMIDITY</b>	-40 °C ~ +85 °C , 10 ~ 95% RH non-condensing
<b>TEMP. COEFFICIENT</b>	± 0.03%/°C (0 ~ 50 °C) RH non-condensing
<b>VIBRATION</b>	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes; Mounting: Compliance to IEC60068-2-6
<b>OPERATING ALTITUDE</b>	5000 meters
<b>OVER VOLTAGE CATEGORY</b>	II;According to EN62368-1;altitude up to 2000 meters

## SAFETY & EMC

<b>SAFETY REGULATIONS</b>	BS EN/EN62368-1
<b>WITHSTAND VOLTAGE</b>	I/P-O/P:4KVAC
<b>INSULATION RESISTANCE</b>	I/P-O/P:100M Ohms / 500VDC / 25 °C / 70% RH
<b>EMC EMISSION</b>	BS EN/EN 55032 class B, BS EN/EN IEC 61000-3-2,3
<b>EMC IMMUNITY</b>	BS EN/EN61000-4-2,3,4,5,6,8,11

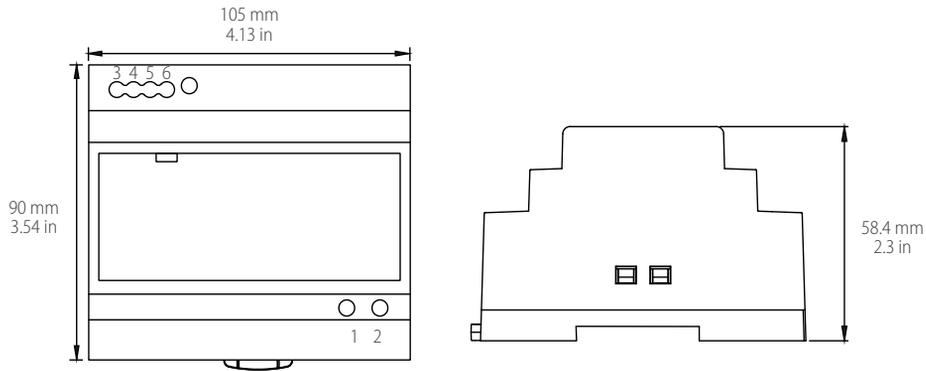
## Dimensions & Weight

<b>Length:</b>	105mm / 4.13in
<b>Width:</b>	90mm / 3.54in
<b>Height:</b>	58.4mm / 2.3in
<b>Weight:</b>	270g

## Packing

<b>Carton Size:</b>	52.5 x 24.5 x 34.5CM 20.67x 9.65x 13.58 in
<b>Master Carton Quantities:</b>	50pcs / Carton

# Dimensions and Installation



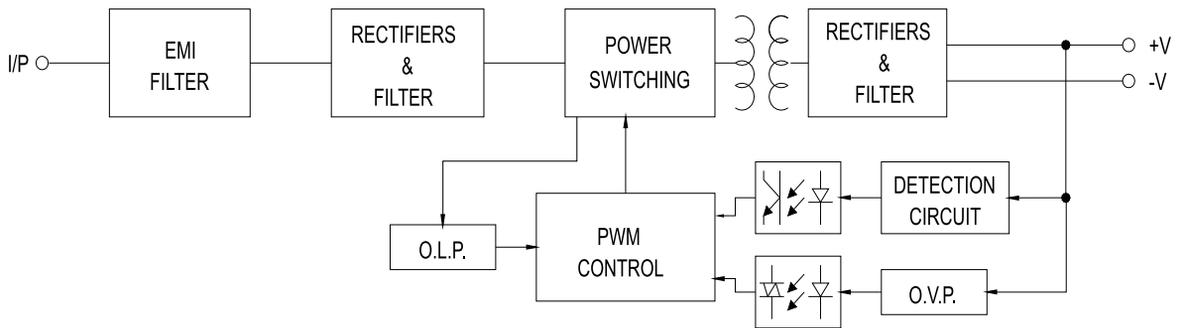
### Input

No.	Description
1	AC/N
2	AC/L

### Output

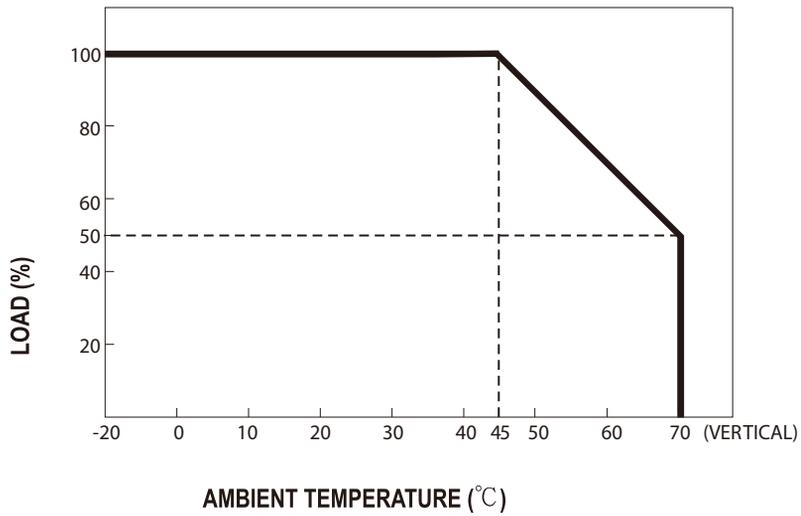
No.	Description
3,4	-V
5,6	+V

# Functional Diagram



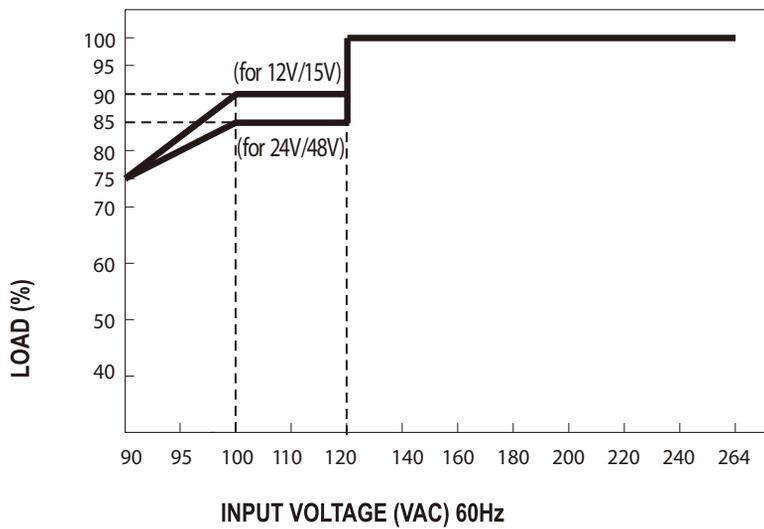
## Deduction Curve and Temperature

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## Minus Output and Input Voltage Curves

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