

# 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

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

## Output

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

## Protection

OVER LOAD	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	
OVER VOLTAGE	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

WORKING TEMP.	-20 °C ~ +70 °C
Working Humidity	20 ~ 90% RH Non-Condensing
STORAGE TEMP, HUMIDITY	-40 °C ~ +85 °C, 10 ~ 95% RH non-condensing
TEMP. COEFFICIENT	± 0.03%/°C (0 ~ 50 °C) RH non-condensing
VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes; Mounting: Compliance to IEC60068-2-6
OPERATING ALTITUDE	5000 meters
OVER VOLTAGE CATEGORY	II;According to EN62368-1;altitude up to 2000 meters
MTBF	500K hrs min. MIL-HDBK-217F (25 °C)

## SAFETY & EMC

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

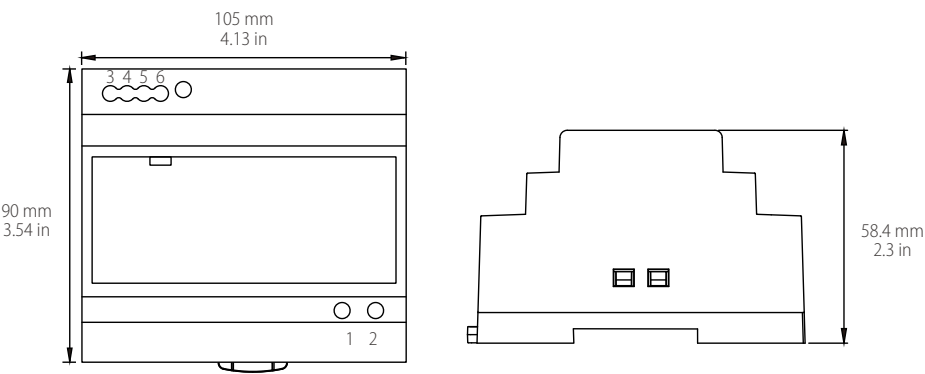
## Dimensions & Weight

Length:	105mm / 4.13in
Width:	90mm / 3.54in
Height:	58.4mm / 2.3in
Weight:	300g

## Packing

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

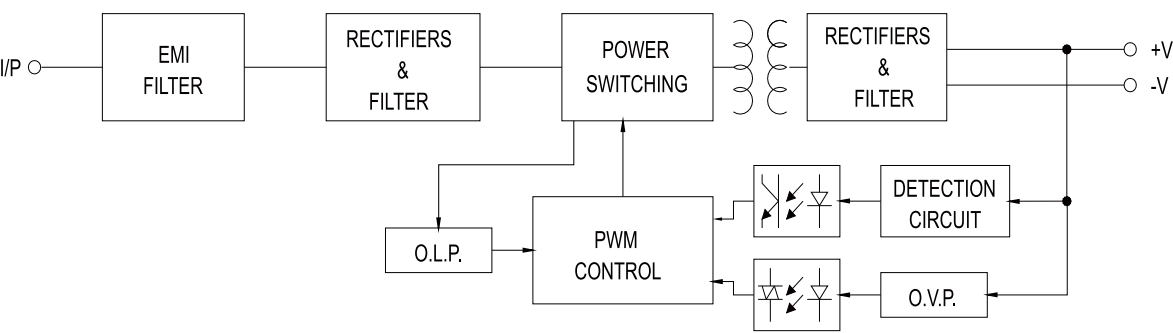
# Dimensions and Installation



Input	
No.	Description
1	AC/N
2	AC/L

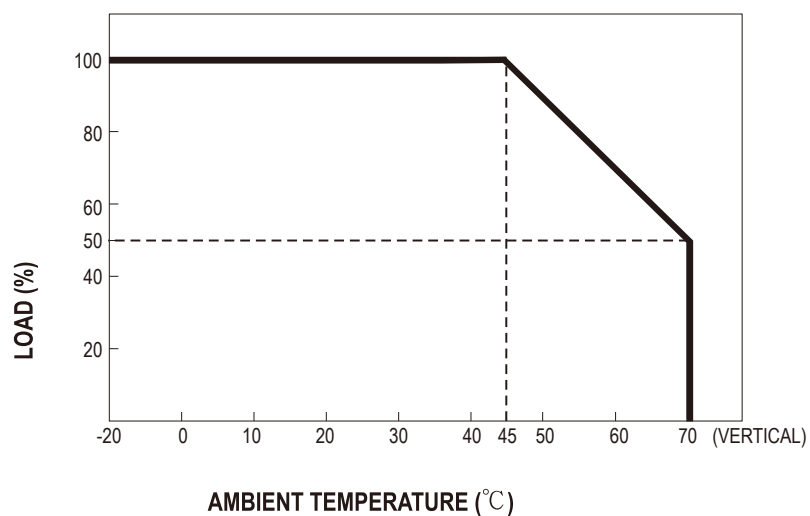
Output	
No.	Description
3,4	-V
5,6	+V

# Functional Diagram



## Deduction Curve and Temperature

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## Minus Output and Input Voltage Curves

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