

# YSD15S SERIES 15W



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



Class 2/Pass LPS



Ultra Slim Step Shape



DC Output Voltage Adjustable



Protection: Short Circuit/Overload/  
Over Voltage



Over Voltage Category II



Three Years Warranty

## Model Information

Yingjiao Part number	DC VOLTAGE	RATED CURRENT	RATED POWER
YSD15S-0502400	5V	2.4A	12W
YSD15S-1201250	12V	1.25A	15W
YSD15S-1501000	15V	1A	15W
YSD15S-2400630	24V	0.63A	15W
YSD15S-4800310	48V	0.31A	15W

## Input

VOLTAGE RANGE	90 ~ 264VAC 127 ~ 370VDC	
FREQUENCY RANGE	47 ~ 63Hz	
INRUSH CURRENT	COLD START 25A/115VAC 45A/230VAC	
AC CURRENT	0.5A/115VAC 0.25A/230VAC	
EFFICIENCY	80%	YSD15S-0502400
	85%	YSD15S-1201250
	85.5%	YSD15S-1501000
	86%	YSD15S-2400630
	87%	YSD15S-4800310

## Output

RIPPLE & NOISE	80mVp-p	YSD15S-0502400
	120mVp-p	YSD15S-1201250
	120mVp-p	YSD15S-1501000
	150mVp-p	YSD15S-2400630
	240mVp-p	YSD15S-4800310
VOLTAGE ADJ. RANGE	4.5~5.5V	YSD15S-0502400
	10.8~13.8V	YSD15S-1201250
	13.5~18V	YSD15S-1501000
	21.6~29V	YSD15S-2400630
	43.2~55.2V	YSD15S-4800310
VOLTAGE TOLERANCE	± 2.0%	YSD15S-0502400
	± 2.0%	YSD15S-1201250
	± 2.0%	YSD15S-1501000
	± 2.0%	YSD15S-2400630
	± 2.0%	YSD15S-4800310
LINE REGULATION	± 1.0%	
LOAD REGULATION	± 1.0%	
SETUP, RISE TIME	2000ms, 80ms/230VAC at full load	
	2000ms, 80ms/115VAC at full load	
HOLD UP TIME (Typ.)	30ms/230VAC at full load	
	12ms/115VAC at full load	

## Protection

OVER LOAD	110 ~ 145% 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	5.75 ~ 6.75V	YSD15S-0502400
	14.2 ~ 16.2V	YSD15S-1201250
	18.8 ~ 22.5V	YSD15S-1501000
	30 ~ 36V	YSD15S-2400630
	56.5 ~ 64.8V	YSD15S-4800310
Protection type : Shut off o/p voltage, clamping by zener diode		

## 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	1000K hrs min. MIL-HDBK-217F (25 °C )

## SAFETY & EMC

SAFETY REGULATIONS	UL62368-1, 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

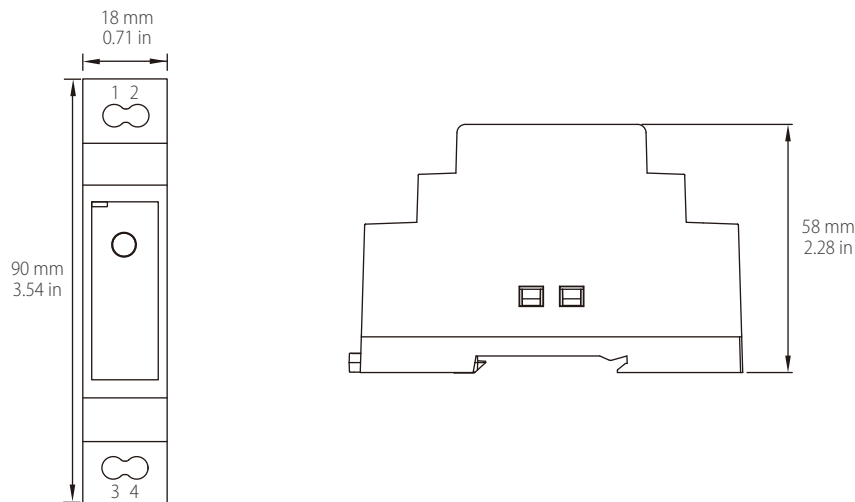
## Dimensions & Weight

Length:	18mm / 0.71in
Width:	90mm / 3.54in
Height:	58mm / 2.28in
Weight:	78g

## Packing

Carton Size:	33.5 x 25.5 x 21 CM 13.19 x 10.04 x 8.27 in
Master Carton Quantities:	100pcs / Carton

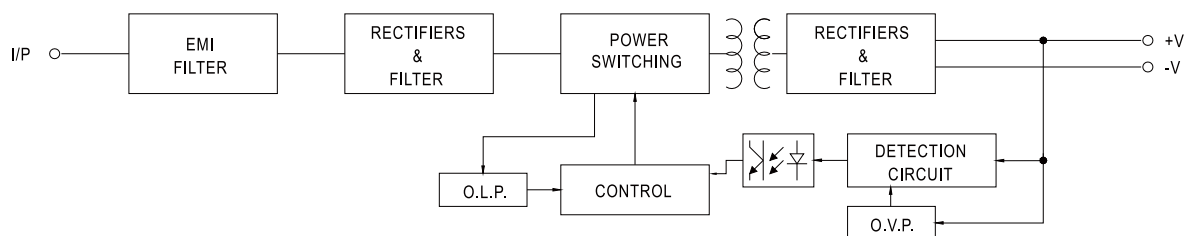
## Dimensions and Installation



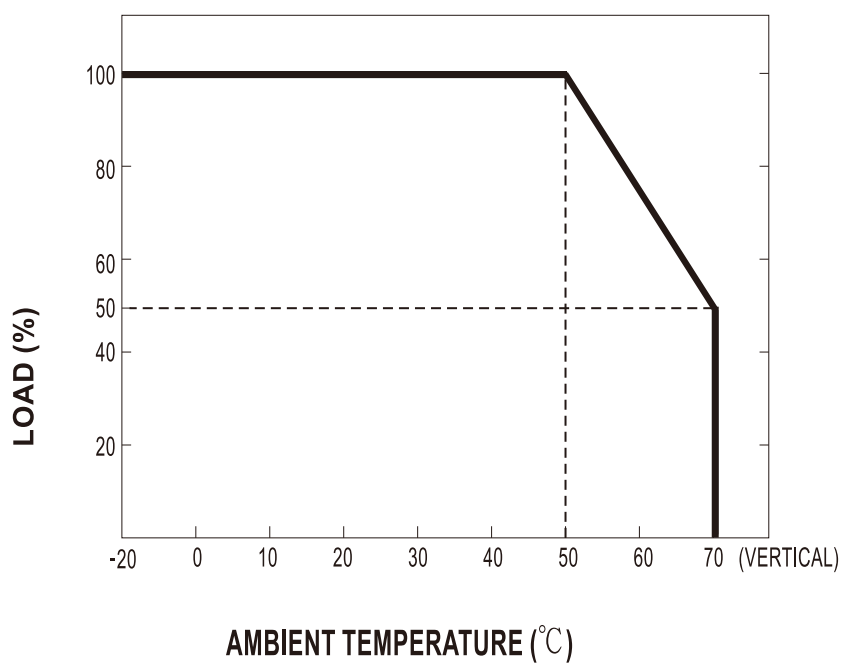
Input	
No.	Description
1	+V
2	-V

Output	
No.	Description
3	AC/N
4	AC/L

## Functional Diagram



## Deduction Curve and Temperature



## Minus Output and Input Voltage Curves

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