

# 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

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

## Output

<b>RIPPLE &amp; NOISE</b>	80mVp-p	YSD15S-0502400
	120mVp-p	YSD15S-1201250
	120mVp-p	YSD15S-1501000
	150mVp-p	YSD15S-2400630
	240mVp-p	YSD15S-4800310
<b>VOLTAGE ADJ. RANGE</b>	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
<b>VOLTAGE TOLERANCE</b>	± 2.0%	YSD15S-0502400
	± 2.0%	YSD15S-1201250
	± 2.0%	YSD15S-1501000
	± 2.0%	YSD15S-2400630
	± 2.0%	YSD15S-4800310
<b>LINE REGULATION</b>	± 1.0%	
<b>LOAD REGULATION</b>	± 1.0%	
<b>SETUP, RISE TIME</b>	2000ms, 80ms/230VAC	at full load
	2000ms, 80ms/115VAC	at full load
<b>HOLD UP TIME (Typ.)</b>	30ms/230VAC	at full load
	12ms/115VAC	at full load

## Protection

<b>OVER LOAD</b>	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.
<b>OVER VOLTAGE</b>	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

<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
<b>MTBF</b>	1000K hrs min. MIL-HDBK-217F (25 °C)

## SAFETY & EMC

<b>SAFETY REGULATIONS</b>	UL62368-1, 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

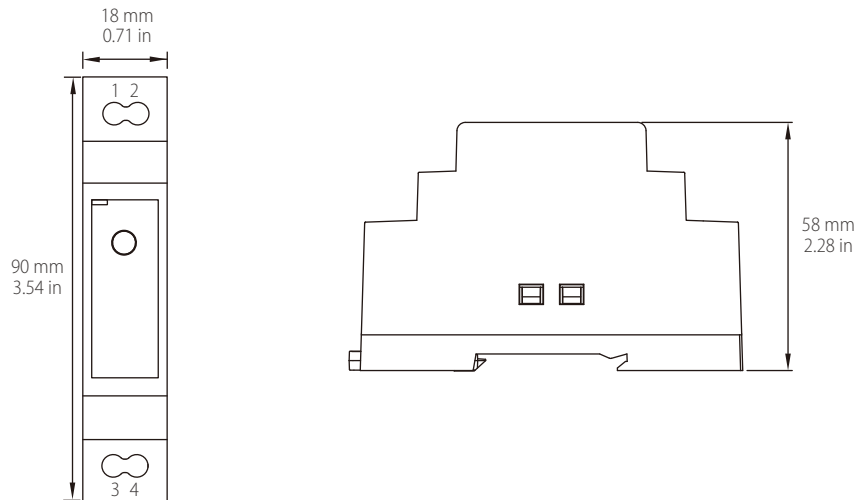
## Dimensions & Weight

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

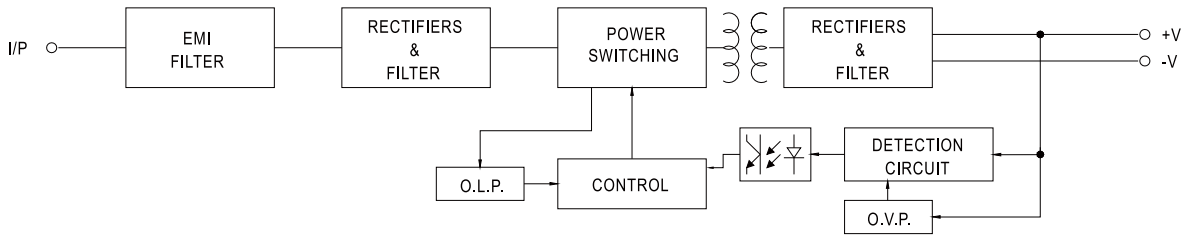
## Dimensions and Installation



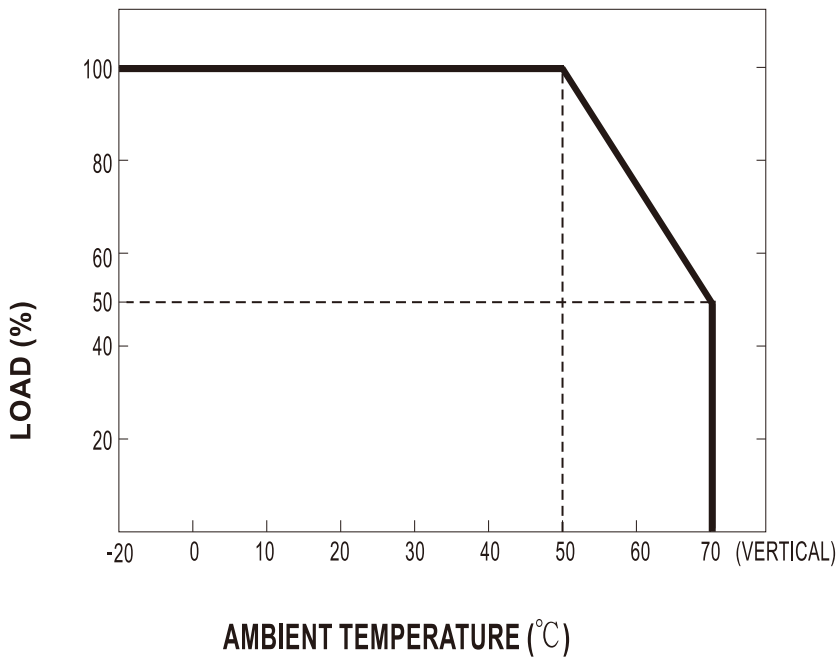
Input	
No.	Description
1	+V
2	-V

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

## Functional Diagram

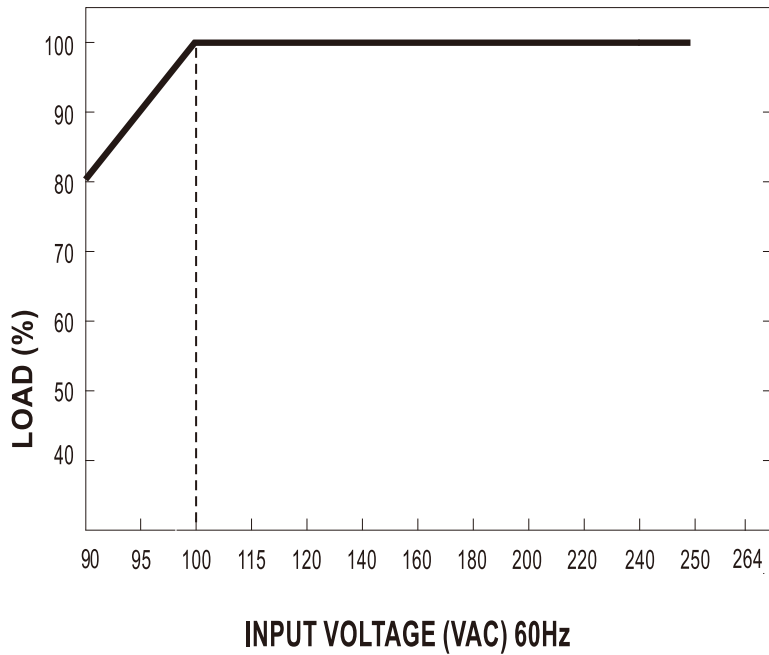


## Deduction Curve and Temperature



## Minus Output and Input Voltage Curves

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