

# YSD30S SERIES 30W



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
YSD30S-0503000	5V	3A	15W
YSD30S-1202000	12V	2A	24W
YSD30S-1502000	15V	2A	30W
YSD30S-2401500	24V	1.5A	36W
YSD30S-4800630	48V	0.63A	30W

## Input

VOLTAGE RANGE	90 ~ 264VAC 127 ~ 370VDC	
FREQUENCY RANGE	47 ~ 63Hz	
INRUSH CURRENT	COLD START 25A/115VAC 45A/230VAC	
AC CURRENT	0.88A/115VAC 0.48A/230VAC	
EFFICIENCY	82%	YSD30S-0503000
	88%	YSD30S-1202000
	89%	YSD30S-1502000
	89%	YSD30S-2401500
	90%	YSD30S-4800630

## Output

RIPPLE & NOISE	80mVp-p	YSD30S-0503000
	120mVp-p	YSD30S-1202000
	120mVp-p	YSD30S-1502000
	150mVp-p	YSD30S-2401500
	240mVp-p	YSD30S-4800630
VOLTAGE ADJ. RANGE	4.5 ~ 5.5V	YSD30S-0503000
	10.8 ~ 13.8V	YSD30S-1202000
	13.5 ~ 18V	YSD30S-1502000
	21.6 ~ 29V	YSD30S-2401500
	43.2 ~ 55.2V	YSD30S-4800630
VOLTAGE TOLERANCE	± 2.0%	YSD30S-0503000
	± 2.0%	YSD30S-1202000
	± 2.0%	YSD30S-1502000
	± 2.0%	YSD30S-2401500
	± 2.0%	YSD30S-4800630
LINE REGULATION	± 1.0%	
LOAD REGULATION	± 1.0%	
SETUP, RISE TIME	500ms, 50ms/230VAC at full load	
	500ms, 50ms/115VAC at full load	
HOLD UP TIME (Typ.)	30ms/230VAC at full load	
	12ms/115VAC at full load	

## Protection

OVER LOAD	105 ~ 160% 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 ~ 7.5V	YSD30S-0503000
	15 ~ 18V	YSD30S-1202000
	18.8 ~ 22.5V	YSD30S-1502000
	30 ~ 36V	YSD30S-2401500
	57.6~ 67.2V	YSD30S-4800630
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	900K 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

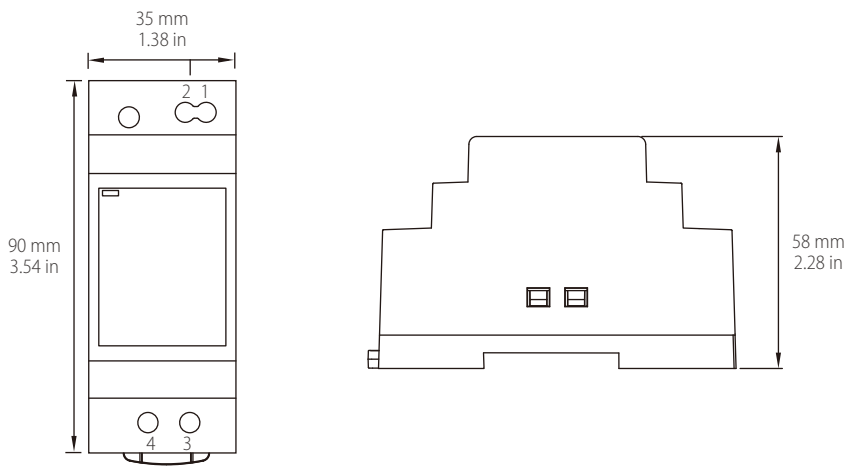
## Dimensions & Weight

Length:	35mm / 1.38in
Width:	90mm / 3.54in
Height:	58mm / 2.28in
Weight:	120g

## Packing

Carton Size:	37 x 22 x 25 CM 14.57 x 8.66 x 9.84 in
Master Carton Quantities:	50pcs / Carton

## Dimensions and Installation



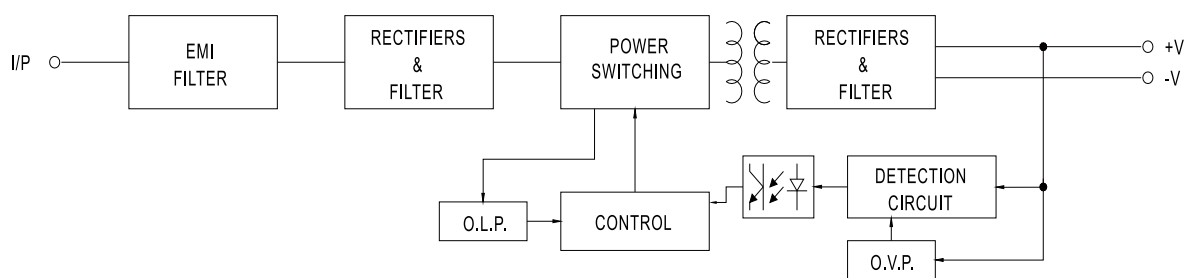
Output

No.	Description
1	AC/L
2	AC/N

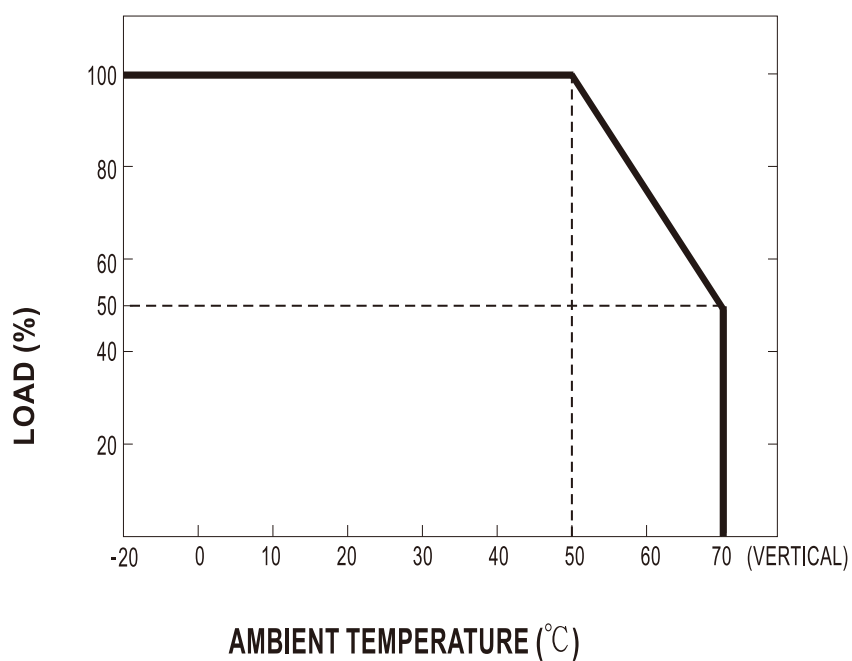
Input

No.	Description
3	+V
4	-V

## Functional Diagram



## Deduction Curve and Temperature



# Minus Output and Input Voltage Curves

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