

# 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% 88% 89% 89% 90%	YSD30S-0503000 YSD30S-1202000 YSD30S-1502000 YSD30S-2401500 YSD30S-4800630

## Output

<b>RIPPLE &amp; NOISE</b>	80mVp-p	YSD30S-0503000
	120mVp-p	YSD30S-1202000
	120mVp-p	YSD30S-1502000
	150mVp-p	YSD30S-2401500
	240mVp-p	YSD30S-4800630
<b>VOLTAGE ADJ. RANGE</b>	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
<b>VOLTAGE TOLERANCE</b>	± 2.0%	YSD30S-0503000
	± 2.0%	YSD30S-1202000
	± 2.0%	YSD30S-1502000
	± 2.0%	YSD30S-2401500
	± 2.0%	YSD30S-4800630
<b>LINE REGULATION</b>	± 1.0%	
<b>LOAD REGULATION</b>	± 1.0%	
<b>SETUP, RISE TIME</b>	500ms, 50ms/230VAC	at full load
	500ms, 50ms/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>	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.
<b>OVER VOLTAGE</b>	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

<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>	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

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

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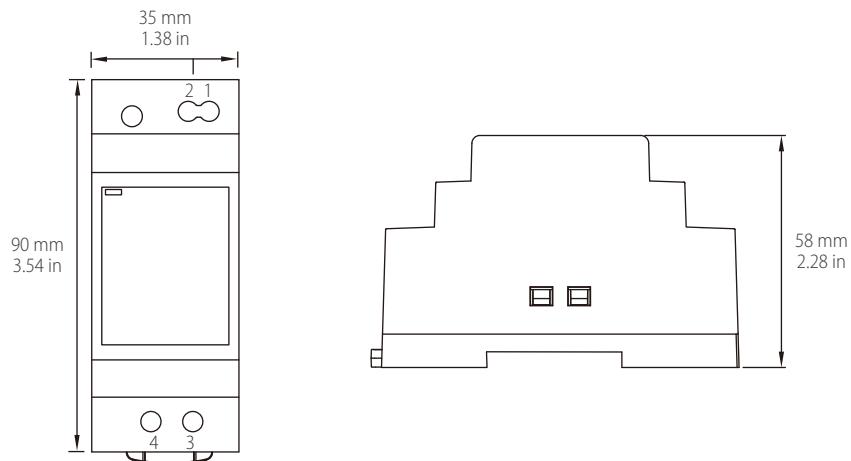
## Packing

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

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## Dimensions and Installation



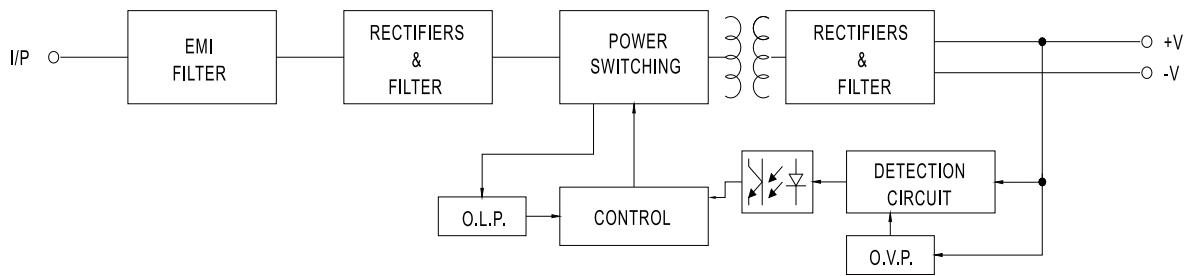
### Input

No.	Description
1	+V
2	-V

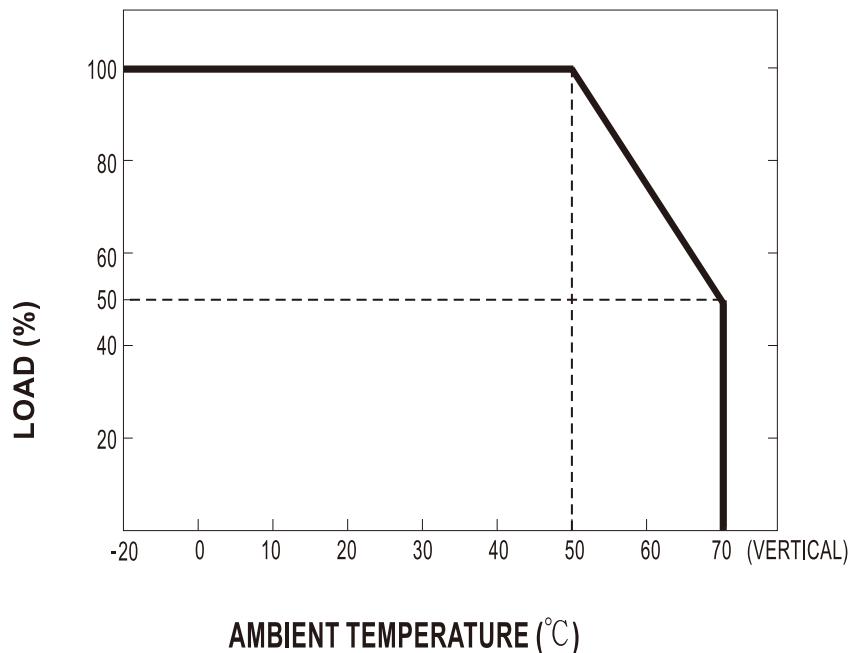
### Output

No.	Description
3	AC/L
4	AC/N

## Functional Diagram



## Deduction Curve and Temperature



## Minus Output and Input Voltage Curves

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