

# YSD60S SERIES 60W



Yingjiao's step shape power family are designed with ultra-slim plastic housing and for full range.

The series are isolation Class II Level, achieving high efficiency and low no-load power consumption. They provide adjustable DC output voltage .

The good performance can be used for buiding 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 III



Three Years Warranty

## Model Information

Yingjiao Part number	DC VOLTAGE	RATED CURRENT	RATED POWER
YSD60S-0504500	5V	4.5A	22.5W
YSD60S-1204500	12V	4.5A	54W
YSD60S-1504000	15V	4A	60W
YSD60S-2402500	24V	2.5A	60W
YSD60S-4801250	48V	1.25A	60W

## Input

<b>VOLTAGE RANGE</b>	90 ~ 264VAC 127 ~ 370VDC
<b>FREQUENCY RANGE</b>	47 ~ 63Hz
<b>INRUSH CURRENT</b>	COLD START 30A/115VAC 60A/230VAC
<b>AC CURRENT</b>	1.2A/115VAC 0.8A/230VAC
<b>EFFICIENCY</b>	85%    YSD60S-0504500 88%    YSD60S-1204500 89%    YSD60S-1504000 90%    YSD60S-2402500 91%    YSD60S-4801250

## Output

<b>RIPPLE &amp; NOISE</b>	80mVp-p	YSD60S-0504500
	120mVp-p	YSD60S-1204500
	120mVp-p	YSD60S-1504000
	150mVp-p	YSD60S-2402500
	240mVp-p	YSD60S-4801250
<b>VOLTAGE ADJ. RANGE</b>	4.0 ~ 6.0V	YSD60S-0504500
	11.0 ~ 13.0V	YSD60S-1204500
	14.0 ~ 16.0V	YSD60S-1504000
	23.0 ~ 25.0V	YSD60S-2402500
	47.0 ~ 49.0V	YSD60S-4801250
<b>VOLTAGE TOLERANCE</b>	± 2.0%	
<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 ~ 6.75V	YSD60S-0504500
	14.2 ~ 16.2V	YSD60S-1204500
	18.8 ~ 22.5V	YSD60S-1504000
	30 ~ 36V	YSD60S-2402500
	56.5 ~ 64.8V	YSD60S-4801250

## 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 ~ +80 °C, 10 ~ 90% 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>	2000 meters
<b>OVER VOLTAGE CATEGORY</b>	III ;According to EN61558, EN50178,EN60664-1, EN62477-1; 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:3KVAC
<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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<b>Length:</b>	52mm / 2.05in
<b>Width:</b>	90mm / 3.54in
<b>Height:</b>	58mm / 2.28in
<b>Weight:</b>	190g

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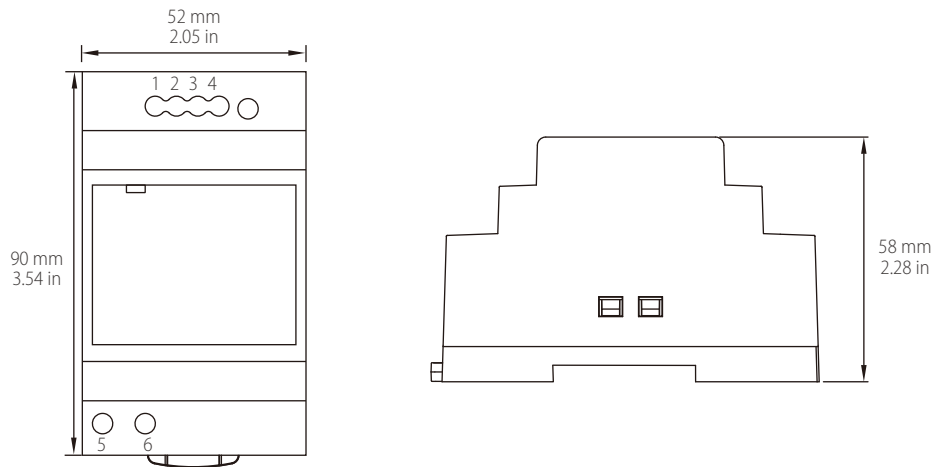
## Packing

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<b>Carton Size:</b>	32.5 x 22 x 36 CM 12.8 x 8.66 x 14.17 in
<b>Master Carton Quantities:</b>	50pcs / Carton

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## Dimensions and Installation



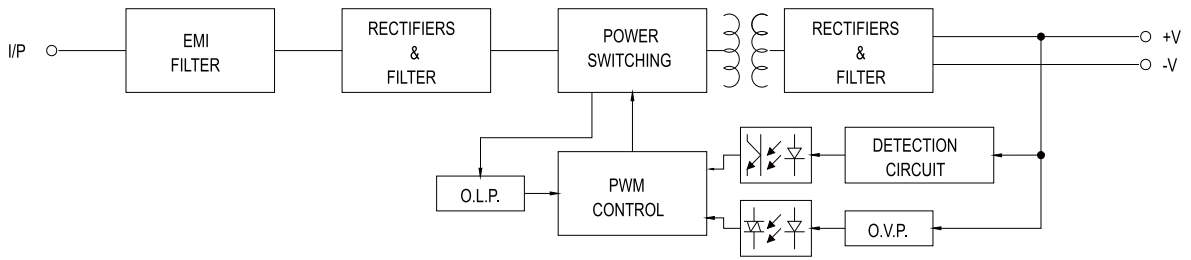
### Input

No.	Description
1,2	-V
3,4	+V

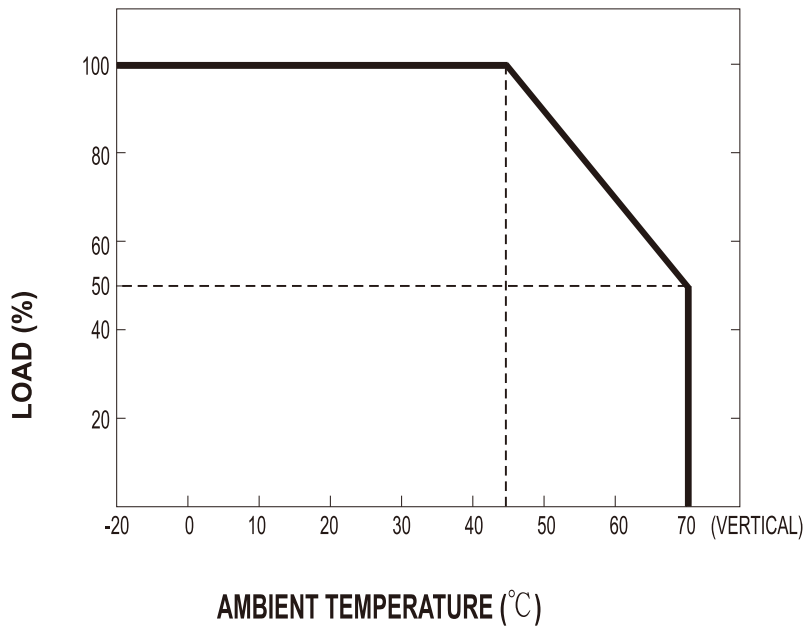
### Output

No.	Description
5	AC/L
6	AC/N

## BLOCK Diagram



## Deduction Curve And Temperature



# Minus Output And Input Voltage Curves

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