

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 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
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

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

Output

RIPPLE & NOISE	80mVp-p	YSD60S-0504500
	120mVp-p	YSD60S-1204500
	120mVp-p	YSD60S-1504000
	150mVp-p	YSD60S-2402500
	240mVp-p	YSD60S-4801250
VOLTAGE ADJ. RANGE	5.0 ~ 5.5V	YSD60S-0504500
	10.8 ~ 13.8V	YSD60S-1204500
	13.5 ~ 18.0V	YSD60S-1504000
	21.6 ~ 29.0V	YSD60S-2402500
	43.2 ~ 55.2V	YSD60S-4801250
VOLTAGE TOLERANCE	$\pm 2.0\%$	
LINE REGULATION	$\pm 1.0\%$	
LOAD REGULATION	$\pm 1.0\%$	
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 ~ 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
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

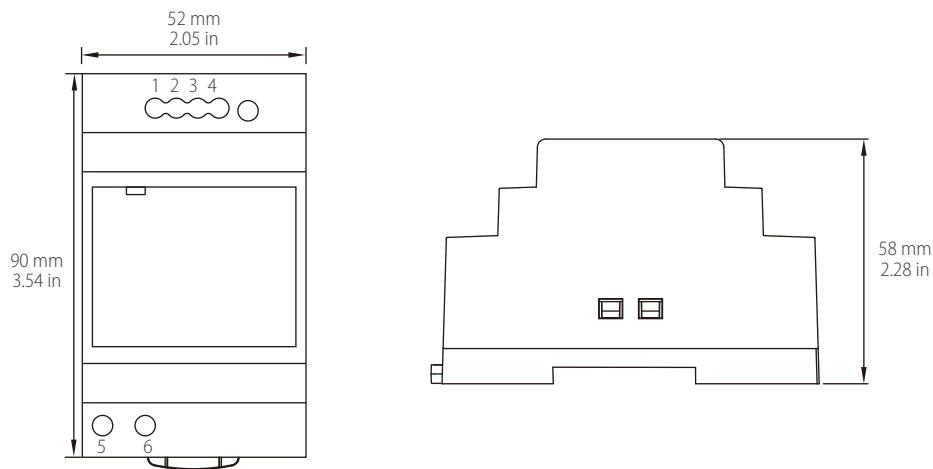
Dimensions & Weight

Length:	52mm / 2.05in
Width:	90mm / 3.54in
Height:	58mm / 2.28in
Weight:	190g

Packing

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

Dimensions and Installation



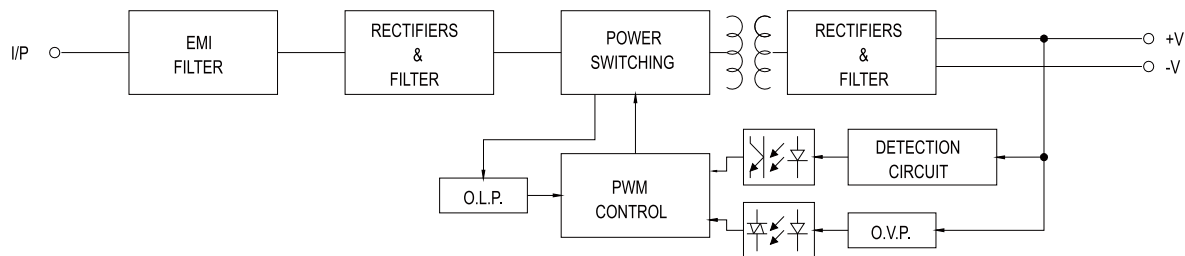
Input

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

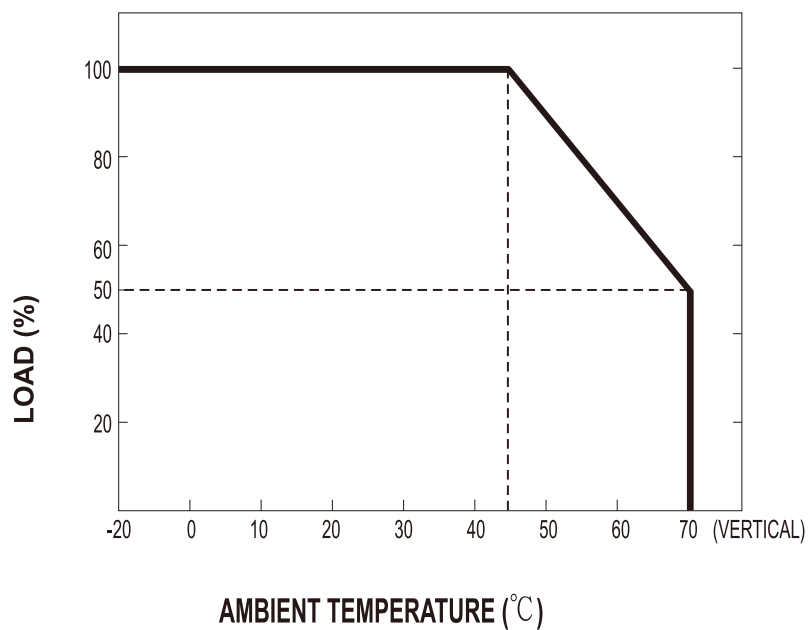
Output

No.	Description
5	AC/L
6	AC/N

Functional Diagram



Deduction Curve and Temperature



Minus Output and Input Voltage Curves

