

YSD60S SERIES 60W



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 buiding automation, household and industrial control systems etc.



Features



Class II Power Supply



Installation on DIN Rail TS-35/7.5 & 15



Ultra Slim Step Shape



DC Output Voltage Adjustable



Protection: Short Circuit/Overload/
Over Voltage/Over Temperature



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	85 ~ 264VAC (277VAC operational) 120 ~ 370VDC (390VDC operational)
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 ~ 18V	YSD60S-1504000
	21.6 ~ 29V	YSD60S-2402500
	43.2 ~ 55.2V	YSD60S-4801250
VOLTAGE TOLERANCE	± 2.0%	YSD60S-0504500
	± 1.0%	YSD60S-1204500
	± 1.0%	YSD60S-1504000
	± 1.0%	YSD60S-2402500
	± 1.0%	YSD60S-4801250
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 ~ 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

WORKING TEMP.	-10 °C ~ +40 °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	2000 meters
OVER VOLTAGE CATEGORY	III ;According to EN61558, EN50178,EN60664-1, EN62477-1; altitude up to 2000 meters

SAFETY & EMC

SAFETY REGULATIONS	UL62368-1, BS EN/EN62368-1
WITHSTAND VOLTAGE	I/P-O/P:3KVAC
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

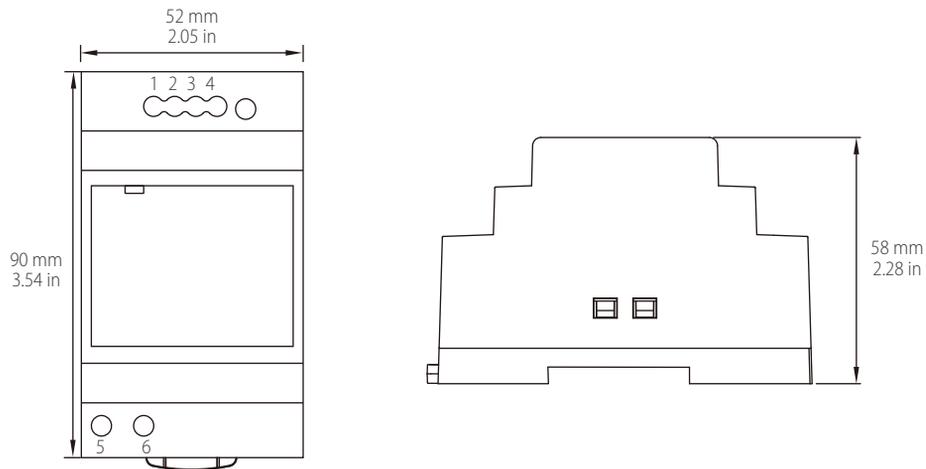
Dimensions & Weight

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



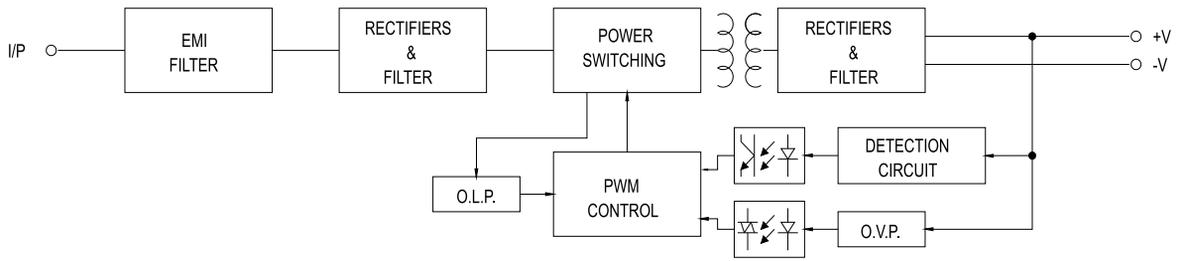
Input

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

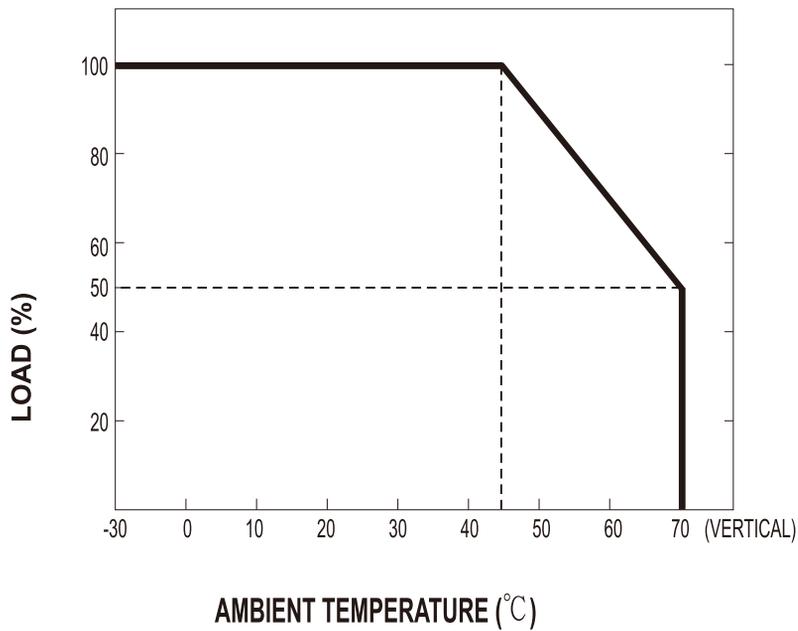
Output

No.	Description
5	AC/L
6	AC/N

BLOCK Diagram



Deduction Curve And Temperature



Minus Output And Input Voltage Curves

