

YSD100S SERIES 100W



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
YSD100S-1207100	12V	7.1A	85.2W
YSD100S-1506130	15V	6.13A	92W
YSD100S-1506500	15V	6.5A	97.5W
YSD100S-2403830	24V	3.83A	92W
YSD100S-2404170	24V	4.17A	100W
YSD100S-4801920	48V	1.92A	92.2W
YSD100S-4802080	48V	2.08A	100W

Input

VOLTAGE RANGE	85 ~ 264VAC (277VAC operational) 120 ~ 370VDC (390VDC operational)
FREQUENCY RANGE	47 ~ 63Hz
INRUSH CURRENT	COLD START 35A/115VAC 70A/230VAC
AC CURRENT	3A/115VAC 1.6A/230VAC
EFFICIENCY	88% YSD100S-1207100 89% YSD100S-1506130 89% YSD100S-1506500 90% YSD100S-2403830 90% YSD100S-2404170 90% YSD100S-4801920 90% YSD100S-4802080

Output

RIPPLE & NOISE	120mVp-p	YSD100S-1207100
	120mVp-p	YSD100S-1506130
	120mVp-p	YSD100S-1506500
	150mVp-p	YSD100S-2403830
	150mVp-p	YSD100S-2404170
	240mVp-p	YSD100S-4801920
	240mVp-p	YSD100S-4802080
VOLTAGE ADJ. RANGE	12 ~ 13V	YSD100S-1207100
	15 ~ 17V	YSD100S-1506130
	13.5 ~ 18V	YSD100S-1506500
	24 ~ 25.5V	YSD100S-2403830
	21.6 ~ 29V	YSD100S-2404170
	48 ~ 48.7V	YSD100S-4801920
43.2 ~ 55.2V	YSD100S-4802080	
VOLTAGE TOLERANCE	± 2.0%	YSD100S-1207100
	± 1.0%	YSD100S-1506130
	± 1.0%	YSD100S-1506500
	± 1.0%	YSD100S-2403830
	± 1.0%	YSD100S-2404170
	± 1.0%	YSD100S-4801920
	± 1.0%	YSD100S-4802080
LINE REGULATION	± 1.0%	
LOAD REGULATION	± 1.0%	
SETUP, RISE TIME	500ms, 50ms/100-240VAC	at full load
HOLD UP TIME (Typ.)	30ms/100-240VAC	at full load

Protection

OVER LOAD	102 ~ 110% rated output power ; 105 ~ 150% 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	14.2 ~ 16.2V YSD100S-1207100 18.8 ~ 22.5V YSD100S-1506130 18.8 ~ 22.5V YSD100S-1506500 30 ~ 36V YSD100S-2403830 30 ~ 36V YSD100S-2404170 56.5 ~ 64.8V YSD100S-4801920 56.5 ~ 64.8V YSD100S-4802080

Environment

WORKING TEMP.	-10℃ ~ +40℃
Working Humidity	20 ~ 90% RH Non-Condensing
STORAGE TEMP, HUMIDITY	-40℃ ~ +85℃, 10 ~ 95% RH non-condensing
TEMP. COEFFICIENT	± 0.03%/℃ (0 ~ 50℃) 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

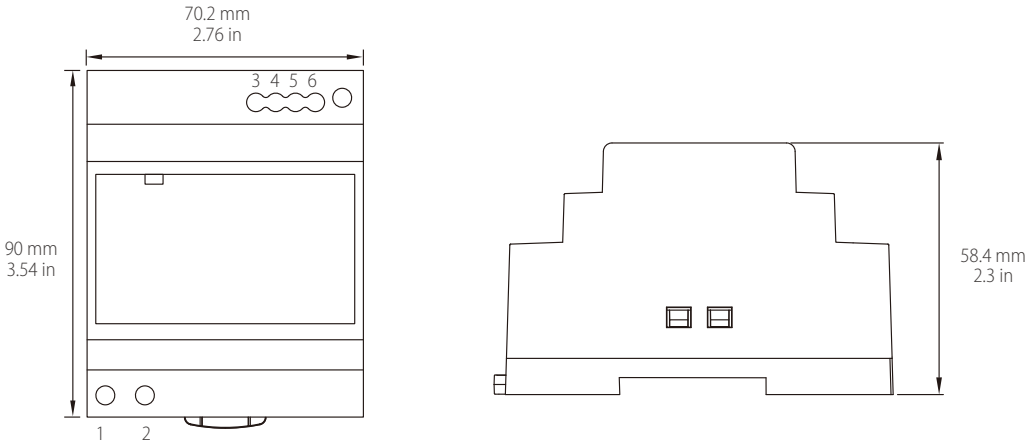
Dimensions & Weight

Length:	90mm / 3.54in
Width:	70.2mm / 2.76in
Height:	58.4mm / 2.3in
Weight:	270g

Packing

Carton Size:	42 x 22 x 38 CM 16.54 x 8.66 x 14.96 in
Master Carton Quantities:	50pcs / Carton

Dimensions and Installation



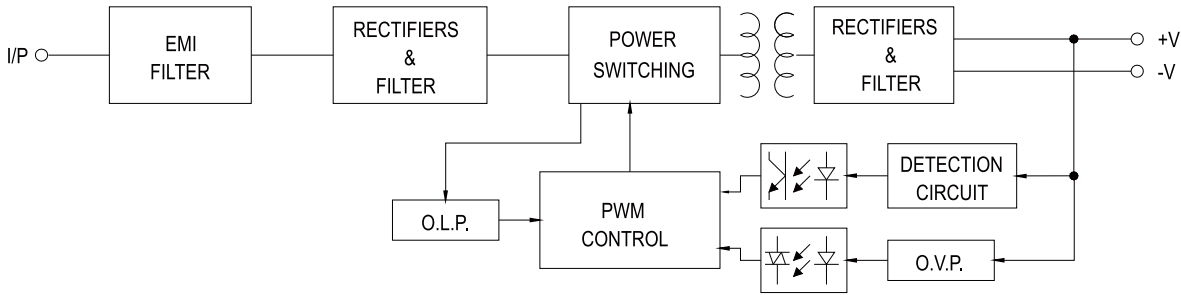
Input

No.	Description
1	AC/L
2	AC/N

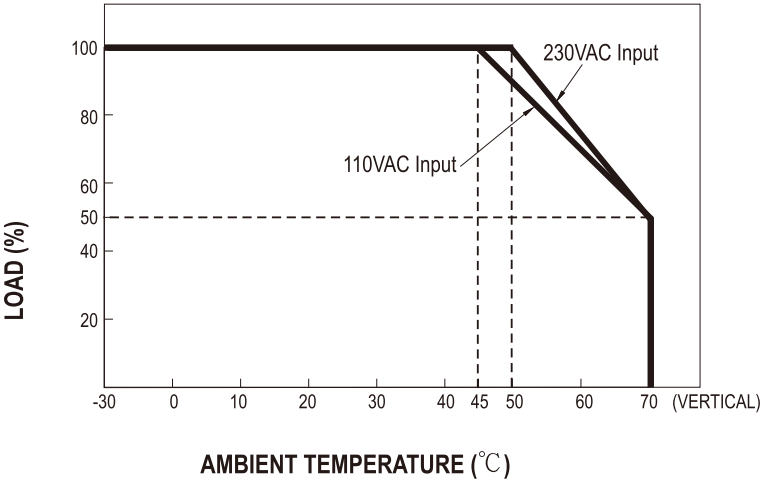
Output

No.	Description
3,4	-V
5,6	+V

BLOCK Diagram



Deduction Curve And Temperature



Minus Output And Input Voltage Curves

