

YSD100S SERIES 100W



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 (limited power source)



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
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	90 ~ 264VAC 127 ~ 370VDC
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	10.8-13.8V	YSD100S-1207100
	13.5-18.0V	YSD100S-1506130
	13.5-18.0V	YSD100S-1506500
	21.6-29V	YSD100S-2403830
	21.6-29V	YSD100S-2404170
	43.2-55.2V	YSD100S-4801920
43.2-55.2V	YSD100S-4802080	
VOLTAGE TOLERANCE	± 2.0%	
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	12-13V YSD100S-1207100 15-17V YSD100S-1506130 13.8-18V YSD100S-1506500 24-25.5V YSD100S-2403830 21.6-29V YSD100S-2404170 48-48.7V YSD100S-4801920 43.2-55.2V YSD100S-4802080

Environment

WORKING TEMP.	-20℃ ~ +70℃
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

Note

- 1.All parameters NOT specially mentioned at 230VAC input, rated load and 25 °C of ambient temperature.
- 2.Ripple&noise are measured from peak to peak with band width limit of 20MHz(0.1uF and 47uF/50V parallel capacitor under DC output full load,AC nominal input 25 °C ambient temperature).
- 3.Installation clearances: top with 40mm, bottom with 20mm, left and right with 5mm. Increase the space to 10-15mm when the adjacent device is heat source.
- 4.Derating may be needed under low input voltage. Please check the derating curve for more details.
- 5.Efficiency test after 30 minutes of burn-in.
- 6.The ambient temperature derating of 3.5 °C /1000m for operating altitude higher than 2000m(6500ft).

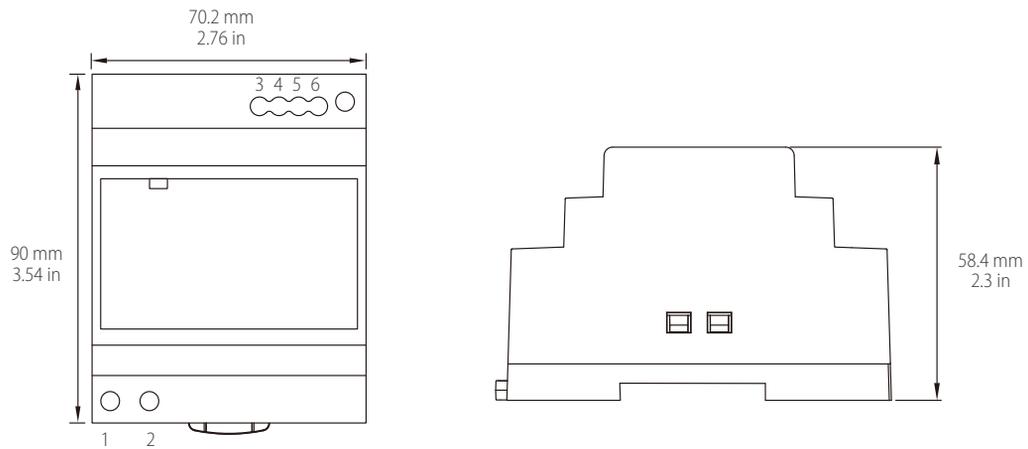
Dimensions & Weight

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



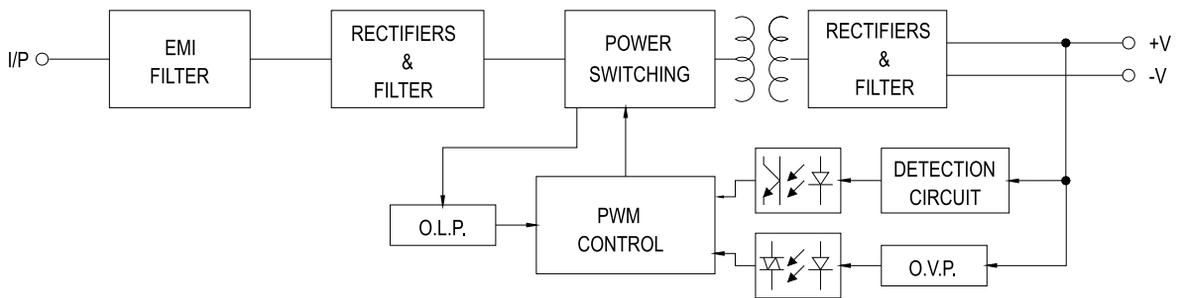
Input

No.	Description
1	AC/L
2	AC/N

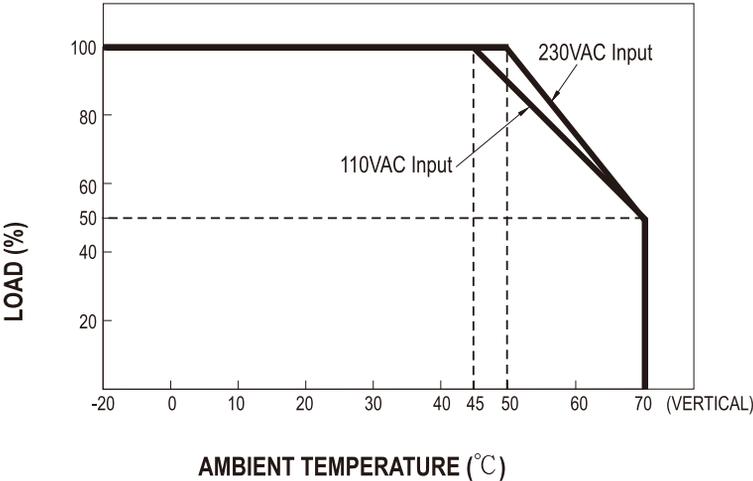
Output

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

Functional Diagram



Deduction Curve and Temperature



Minus Output and Input Voltage Curves

