

YSD150S SERIES 150W



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 building automation, household and industrial control systems etc.



Features



Isolation Class II



DC Output Voltage Adjustable



Ultra Slim Step Shape



Over Voltage Category III



Protection: Short Circuit/Overload/
Over Voltage



Three Years Warranty

Model Information

Yingjiao Part number	DC VOLTAGE	RATED CURRENT	RATED POWER
YSD150S-12011300	12V	11.3A 10.2A	135.6W/230V AC 122.4W/115V AC
YSD150S-15009500	15V	9.5A 8.55A	142.5W/230V AC 128.3W/115V AC
YSD150S-24006250	24V	6.25A 5.3A	150.0W/230V AC 127.4W/115V AC
YSD150S-48003120	48V	3.12A 2.72A	153.6W/230V AC 130.6W/115V AC

Input

VOLTAGE RANGE	90 ~ 264VAC 127 ~ 370VDC	
FREQUENCY RANGE	47~ 63Hz	
INRUSH CURRENT	COLD START 60A/240VAC	
AC CURRENT	3A/115VAC 1.6A/240VAC	
EFFICIENCY	89.0%	YSD150S-12011300
	89.5%	YSD150S-15009500
	90.5%	YSD150S-24006250
	90.5%	YSD150S-48003120

Output

RIPPLE & NOISE	100mVp-p	YSD150S-12011300
	120mVp-p	YSD150S-15009500
	150mVp-p	YSD150S-24006250
	200mVp-p	YSD150S-48003120
VOLTAGE ADJ. RANGE	10.8~13.8V	YSD150S-12011300
	13.5~18.0V	YSD150S-15009500
	21.6~29.0V	YSD150S-24006250
	43.2~55.2V	YSD150S-48003120
VOLTAGE TOLERANCE	± 2.0%	YSD150S-12011300
	± 2.0%	YSD150S-15009500
	± 2.0%	YSD150S-24006250
	± 2.0%	YSD150S-48003120
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	105 ~ 135% 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	YSD150S-12011300
	18.8~22.5V	YSD150S-15009500
	30.0~36.0V	YSD150S-24006250
	56.5~64.8V	YSD150S-48003120
Protection type : Shut down o/p voltage, re-power on to recover		

Environment

WORKING TEMP.	— 10℃ ~ +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	BS EN/EN62368-1
WITHSTAND VOLTAGE	I/P-O/P:3KVAC
INSULATION RESISTANCE	I/P-O/P:100M Ohms / 500VDC / 25℃ / 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

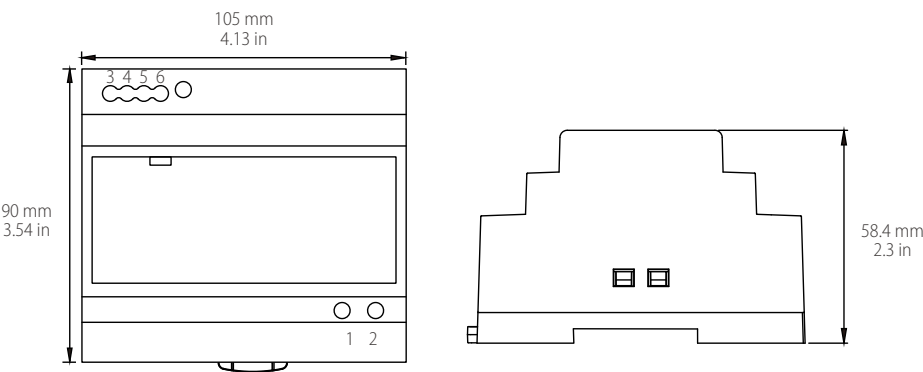
Dimensions & Weight

Length:	105mm / 4.13in
Width:	70.2mm / 2.76in
Height:	58.4mm / 2.3in
Weight:	270g

Packing

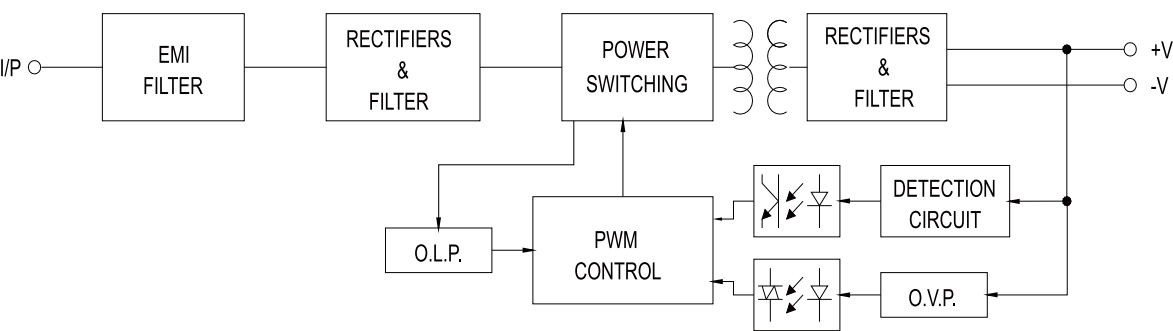
Carton Size:	42 x 22 x 38 CM 16.54 x 8.66 x 14.96 in
Master Carton Quantities:	50pcs / Carton

Dimensions and Installation

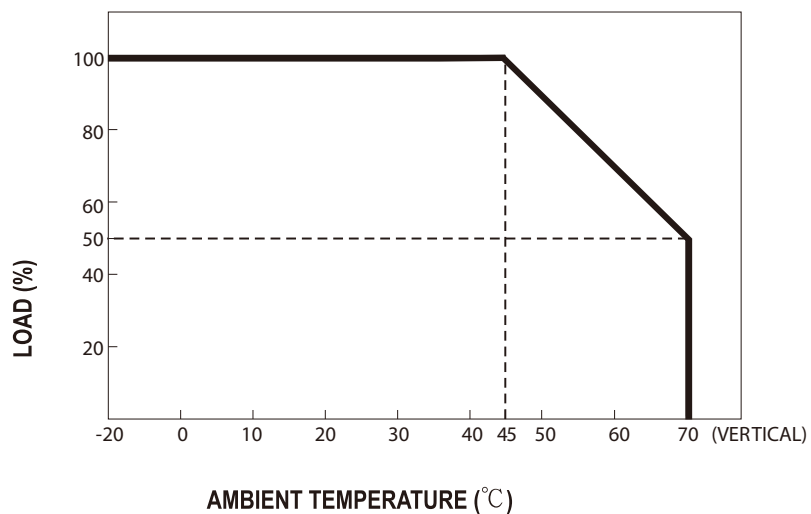


Input		Output	
No.	Description	No.	Description
1	AC/N	3,4	-V
2	AC/L	5,6	+V

Functional Diagram



Deduction Curve and Temperature



Minus Output and Input Voltage Curves

