

YSD15S SERIES 15W



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



Class 2/Pass LPS



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
YSD15S-0502400	5V	2.4A	15W
YSD15S-1201250	12V	1.25A	15W
YSD15S-1501000	15V	1A	15W
YSD15S-2400630	24V	0.63A	15W
YSD15S-4800310	48V	0.31A	15W

Input

VOLTAGE RANGE	90 ~ 264VAC 127 ~ 370VDC
FREQUENCY RANGE	47 ~ 63Hz
INRUSH CURRENT	COLD START 25A/115VAC 45A/230VAC
AC CURRENT	0.5A/115VAC 0.25A/230VAC
EFFICIENCY	80% YSD15S-0502400 85% YSD15S-1201250 85.5% YSD15S-1501000 86% YSD15S-2400630 87% YSD15S-4800310

Output

RIPPLE & NOISE	80mVp-p	YSD15S-0502400
	120mVp-p	YSD15S-1201250
	120mVp-p	YSD15S-1501000
	150mVp-p	YSD15S-2400630
	240mVp-p	YSD15S-4800310
VOLTAGE ADJ. RANGE	4.5~5.5V	YSD15S-0502400
	10.8~13.8V	YSD15S-1201250
	13.5~18V	YSD15S-1501000
	21.6~29V	YSD15S-2400630
	43.2~55.2V	YSD15S-4800310
VOLTAGE TOLERANCE	± 2.0%	YSD15S-0502400
	± 2.0%	YSD15S-1201250
	± 2.0%	YSD15S-1501000
	± 2.0%	YSD15S-2400630
	± 2.0%	YSD15S-4800310
LINE REGULATION	± 1.0%	
LOAD REGULATION	± 1.0%	
SETUP, RISE TIME	2000ms, 80ms/230VAC	at full load
	2000ms, 80ms/115VAC	at full load
HOLD UP TIME (Typ.)	30ms/230VAC	at full load
	12ms/115VAC	at full load

Protection

OVER LOAD	110 ~ 145% 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 YSD15S-0502400 14.2 ~ 16.2V YSD15S-1201250 18.8 ~ 22.5V YSD15S-1501000 30 ~ 36V YSD15S-2400630 56.5 ~ 64.8V YSD15S-4800310 Protection type : Shut off o/p voltage, clamping by zener diode

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	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

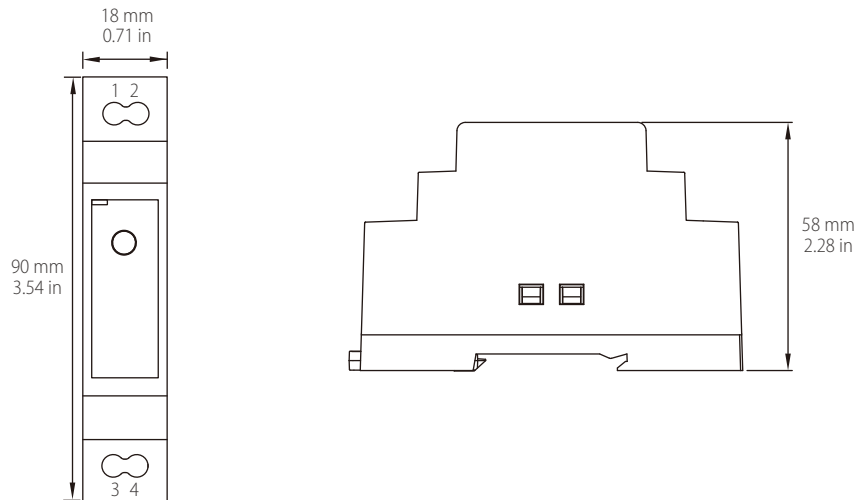
Dimensions & Weight

Length:	18mm / 0.71in
Width:	90mm / 3.54in
Height:	58mm / 2.28in
Weight:	78g

Packing

Carton Size:	33.5 x 25.5 x 21 CM 13.19 x 10.04 x 8.27 in
Master Carton Quantities:	100pcs / Carton

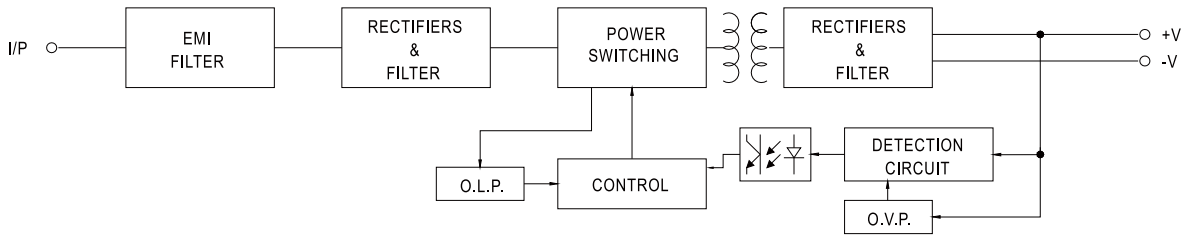
Dimensions and Installation



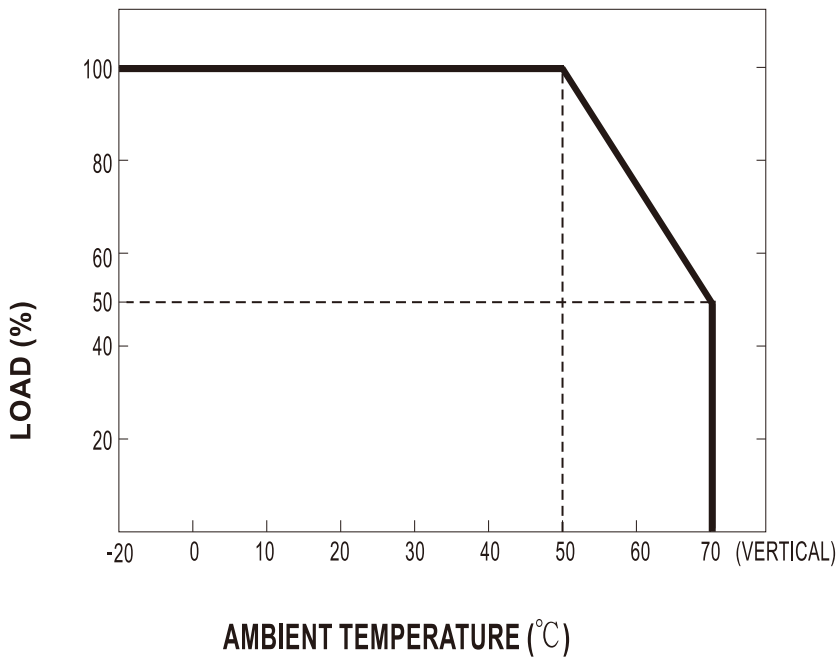
Input	
No.	Description
1	+V
2	-V

Output	
No.	Description
3	AC/N
4	AC/L

Functional Diagram



Deduction Curve and Temperature



Minus Output and Input Voltage Curves

