

YSD30S SERIES 30W



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 II



Three Years Warranty

Model Information

Yingjiao Part number	DC VOLTAGE	RATED CURRENT	RATED POWER
YSD30S-0503000	5V	3A	15W
YSD30S-1202000	12V	2A	24W
YSD30S-1502000	15V	2A	30W
YSD30S-2401500	24V	1.5A	36W
YSD30S-4800630	48V	0.63A	30W

Input

VOLTAGE RANGE	90 ~ 264VAC 127 ~ 370VDC	
FREQUENCY RANGE	47 ~ 63Hz	
INRUSH CURRENT	COLD START 25A/115VAC 45A/230VAC	
AC CURRENT	0.88A/115VAC 0.48A/230VAC	
EFFICIENCY	82%	YSD30S-0503000
	88%	YSD30S-1202000
	89%	YSD30S-1502000
	89%	YSD30S-2401500
	90%	YSD30S-4800630

Output

RIPPLE & NOISE	80mVp-p	YSD30S-0503000
	120mVp-p	YSD30S-1202000
	120mVp-p	YSD30S-1502000
	150mVp-p	YSD30S-2401500
	240mVp-p	YSD30S-4800630
VOLTAGE ADJ. RANGE	4.5 ~ 5.5V	YSD30S-0503000
	10.8 ~ 13.8V	YSD30S-1202000
	13.5 ~ 18V	YSD30S-1502000
	21.6 ~ 29V	YSD30S-2401500
	43.2 ~ 55.2V	YSD30S-4800630
VOLTAGE TOLERANCE	± 2.0%	YSD30S-0503000
	± 2.0%	YSD30S-1202000
	± 2.0%	YSD30S-1502000
	± 2.0%	YSD30S-2401500
	± 2.0%	YSD30S-4800630
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 ~ 7.5V	YSD30S-0503000
	15 ~ 18V	YSD30S-1202000
	18.8 ~ 22.5V	YSD30S-1502000
	30 ~ 36V	YSD30S-2401500
	57.6 ~ 67.2V	YSD30S-4800630
Protection type : Shut down o/p voltage, re-power on to recover		

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	5000 meters
OVER VOLTAGE CATEGORY	II; According to EN62368-1; altitude up to 2000 meters
MTBF	900K hrs min. MIL-HDBK-217F (25 °C)

SAFETY & EMC

SAFETY REGULATIONS	UL62368-1, BS EN/EN62368-1
WITHSTAND VOLTAGE	I/P-O/P:4KVAC
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

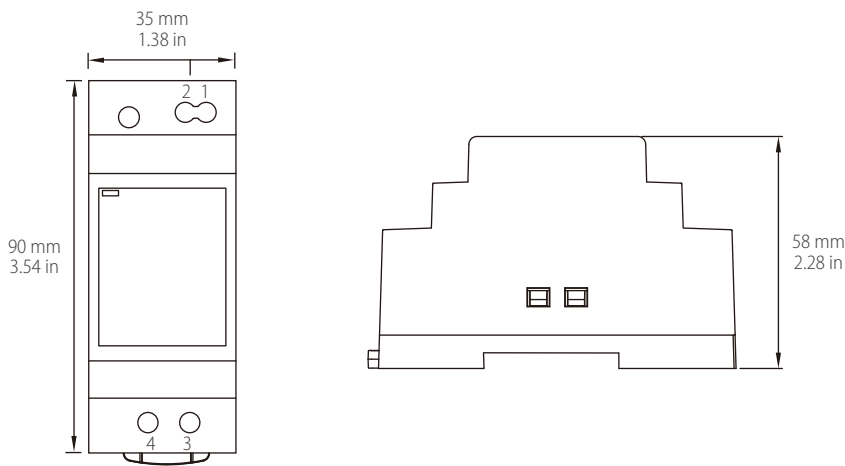
Dimensions & Weight

Length:	35mm / 1.38in
Width:	90mm / 3.54in
Height:	58mm / 2.28in
Weight:	120g

Packing

Carton Size:	37 x 22 x 25 CM 14.57 x 8.66 x 9.84 in
Master Carton Quantities:	50pcs / Carton

Dimensions and Installation



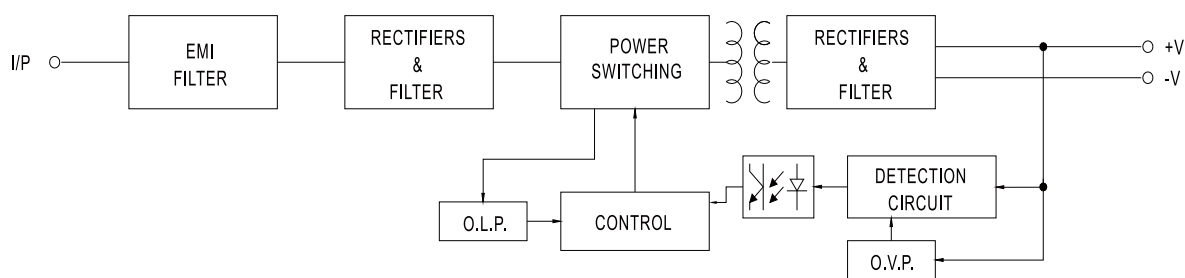
Output

No.	Description
1	AC/L
2	AC/N

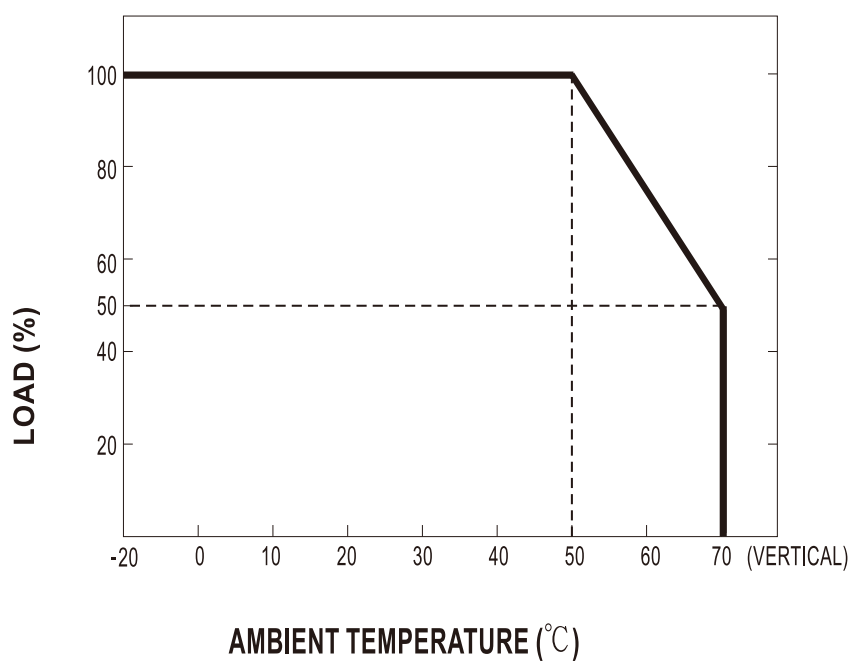
Input

No.	Description
3	+V
4	-V

Functional Diagram



Deduction Curve and Temperature



Minus Output and Input Voltage Curves

