YSDS30 SERIES 30W

Our step-shaped power family is designed with ultra-slim plastic housing 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

- 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

Part number	DC VOLTAGE	RATED CURRENT	RATED POWER
YSDS-30-05	5V	3A	15W
YSDS-30-12	12V	2A	24W
YSDS-30-15	15V	2A	30W
YSDS-30-24	24V	1.25A	30W
YSDS-30-48	48V	0.63A	30W
YSDS-30-10	10V	2,5A	30W
YSDS-36-12	12V	2,5A	36W
YSDS-36-24	24V	1.5A	36W
YSDS-36-48	48V	0.75A	36W

Input

VOLTAGE RANGE	85 ~ 264VAC (277VAC operational) 120 ~ 370VDC (390VDC operational)	
FREQUENCY RANGE	47 ~ 63Hz	
INRUSH CURRENT	COLD START 25A/115VAC 45A/230VAC	
AC CURRENT	0.88A/115VC 0.48A/230VAC	
EFFICIENCY	82%	YSDS-30-05
	88%	YSDS-30-12
	89%	YSDS-30-15
	89%	YSDS-30-24
	90%	YSDS-30-48
	88%	YSDS-30-10
	88%	YSDS-36-12
	89%	YSDS-36-24
	90%	YSDS-36-48

Output

RIPPLE & NOISE	80mVp-p	YSDS-30-05
	120mVp-p	YSDS-30-12
	120mVp-p	YSDS-30-15
	150mVp-p	YSDS-30-24
	240mVp-p	YSDS-30-48
	100mVp-p	YSDS-30-10
	120mVp-p	YSDS-36-12
	150mVp-p	YSDS-36-24
	240mVp-p	YSDS-36-48
VOLTAGE ADJ. RANGE	4.5 ~ 5.5V	YSDS-30-05
	10.8 ~ 13.8V	YSDS-30-12
	13.5 ~ 18V	YSDS-30-15
	21.6 ~ 29V	YSDS-30-24
	43.2 ~ 55.2V	YSDS-30-48
	9.0 ~ 11.0V	YSDS-30-10
	10.8 ~ 13.8V	YSDS-36-12
	21.6 ~ 29V	YSDS-36-24
	43.2 ~ 55.2V	YSDS-36-48
VOLTAGE TOLERANCE	±2.0%	YSDS-30-05
	±1.0%	YSDS-30-12
	±1.0%	YSDS-30-15
	±1.0%	YSDS-30-24
	±1.0%	YSDS-30-48
	±1.0%	YSDS-30-10
	±1.0%	YSDS-36-12
	±1.0%	YSDS-36-24
	±1.0%	YSDS-36-48
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	
OVER VOLTAGE	5.75 ~ 7.5V	YSDS-30-05
	15 ~ 18V	YSDS-30-12
	18.8 ~ 22.5V	YSDS-30-15
	30 ~ 36V	YSDS-30-24
	57.6 ~ 67.2V	YSDS-30-48
	8 ~ 12V	YSDS-30-10
	15 ~ 18V	YSDS-36-12
	30 ~ 36V	YSDS-36-24
	57.6 ~ 67.2V	YSDS-30-48

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 o 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℃/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

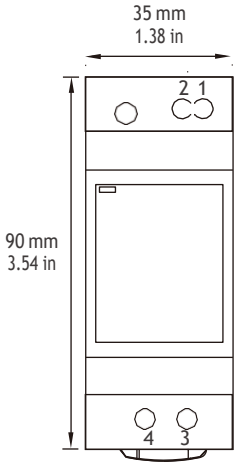
Dimensions & Weight

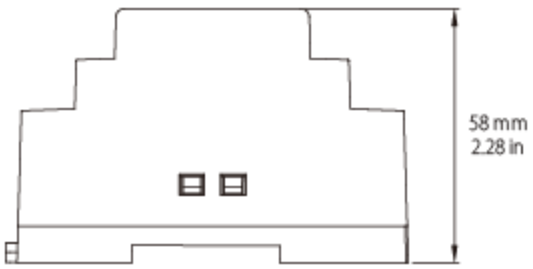
Length:	35mm / 1.38in
Width:	90mm / 3.54in
Height:	58mm / 2.28in
Weight:	120g

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





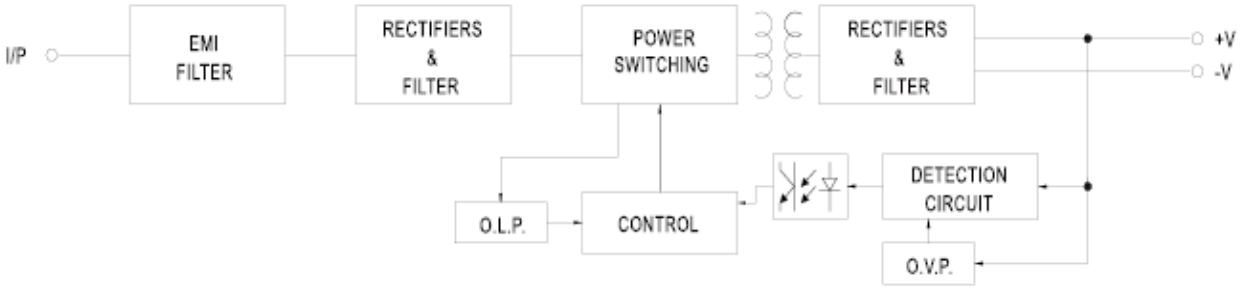
Input

No.	Description
1	+V
2	-V

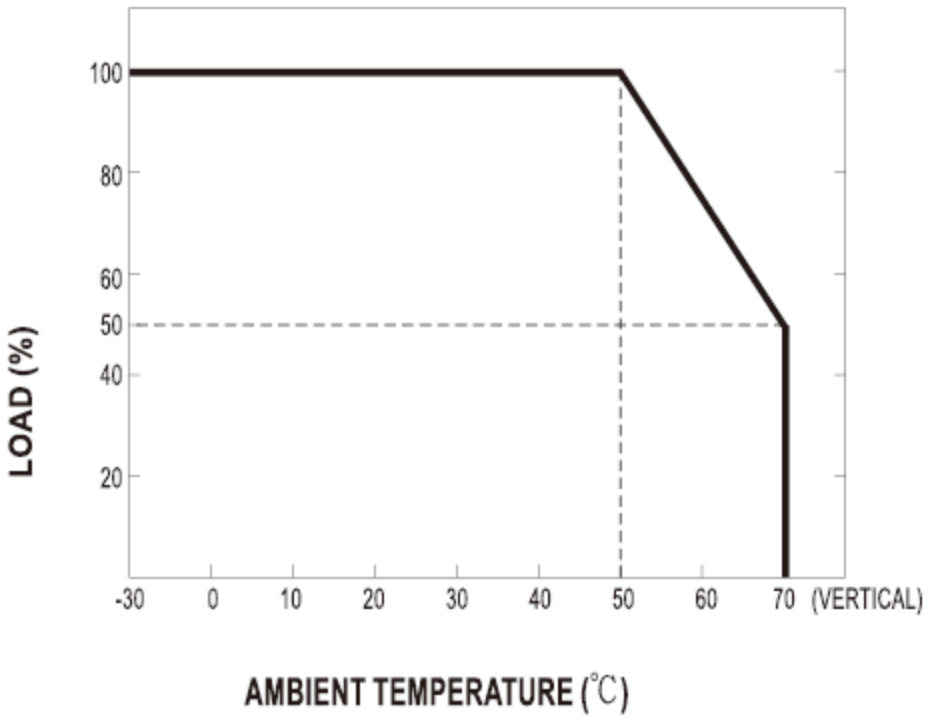
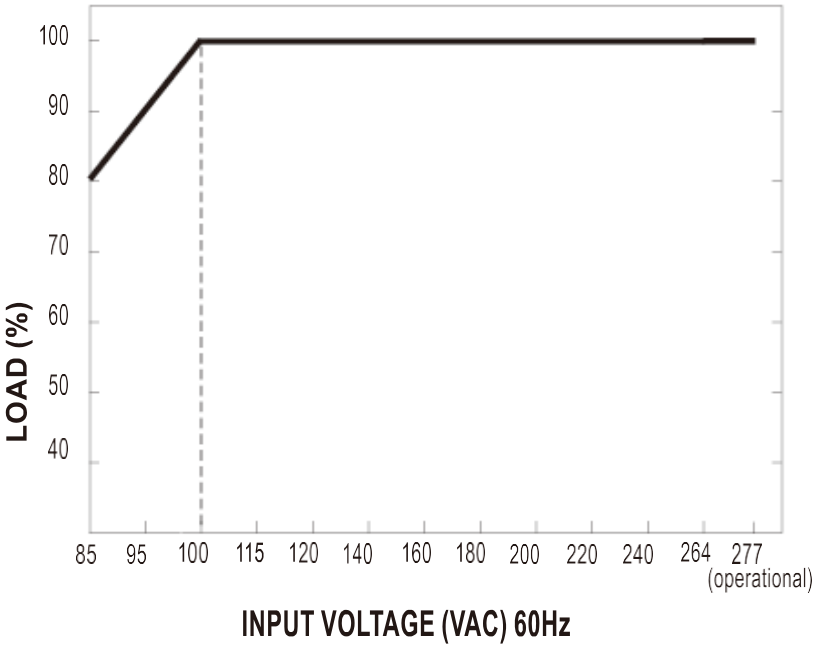
Output

No.	Description
3	AC/L
4	AC/N

BLOCK Diagram



Deduction Curve And Temperature



Minus Output And Input Voltage Curves