

# YSDS60 SERIES 60W



Our 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

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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

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Part number	DC VOLTAGE	RATED CURRENT	RATED POWER
YSDS-60-05	5V	4.5A	22.5W
YSDS-60-12	12V	4.5A	54W
YSDS-60-15	15V	4A	60W
YSDS-60-24	24V	2.5A	60W
YSDS-60-48	48V	1.25A	60W

## Input

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VOLTAGE RANGE	90 ~ 264VAC 127 ~ 370VDC
FREQUENCY RANGE	47 ~ 63Hz
INRUSH CURRENT	COLD START 30A/115VAC 60A/230VAC
AC CURRENT	1.2A/115VAC 0.8A/230VAC
EFFICIENCY	85% YSDS-60-05 88% YSDS-60-12 89% YSDS-60-15 90% YSDS-60-24 91% YSDS-60-48

## Output

RIPPLE & NOISE	80mVp-p	YSDS-60-05
	120mVp-p	YSDS-60-12
	120mVp-p	YSDS-60-15
	150mVp-p	YSDS-60-24
	240mVp-p	YSDS-60-48
VOLTAGE ADJ. RANGE	5.0 ~ 5.5V	YSDS-60-05
	10.8 ~ 13.8V	YSDS-60-12
	13.5 ~ 18.0V	YSDS-60-15
	21.6 ~ 29.0V	YSDS-60-24
	43.2 ~ 55.2V	YSDS-60-48
VOLTAGE TOLERANCE	± 2.0%	
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 ~ 6.75V	YSDS-60-05
	14.2 ~ 16.2V	YSDS-60-12
	18.8 ~ 22.5V	YSDS-60-15
	30 ~ 36V	YSDS-60-24
	56.5 ~ 64.8V	YSDS-60-48
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 ~ 90% 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

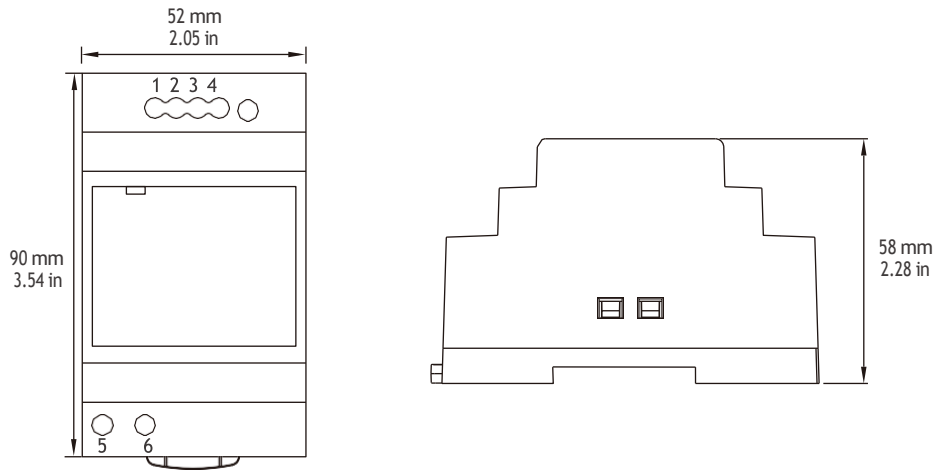
## Dimensions & Weight

Length:	52mm/2.05in
Width:	90mm/3.54in
Height:	58mm/2.28in
Weight:	190g

## Packing

Carton Size:	32.5 x 22 x 36 CM 12.8 x 8.66 x 14.17 in
Master Carton Quantities:	50pcs / Carton

## Dimensions and Installation



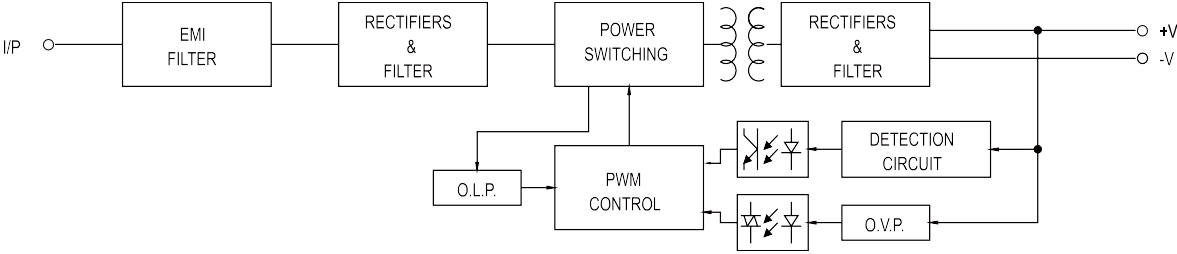
### Input

No.	Description
1,2	-V
3,4	+V

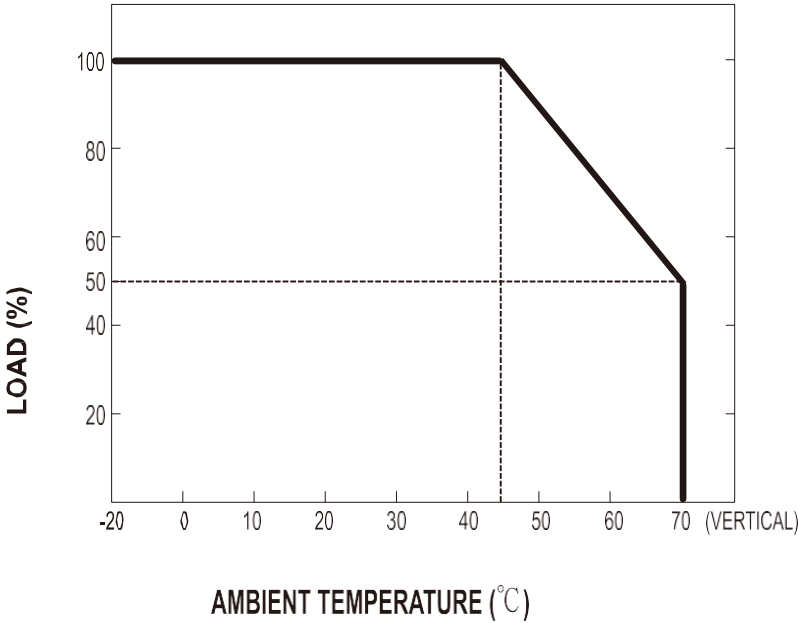
### Output

No.	Description
5	AC/L
6	AC/N

# Functional Diagram



# Deduction Curve and Temperature



## Minus Output and Input Voltage Curves

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