

YSDS60 SERIES 60W



CE UK CR
L N LPS 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



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

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

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

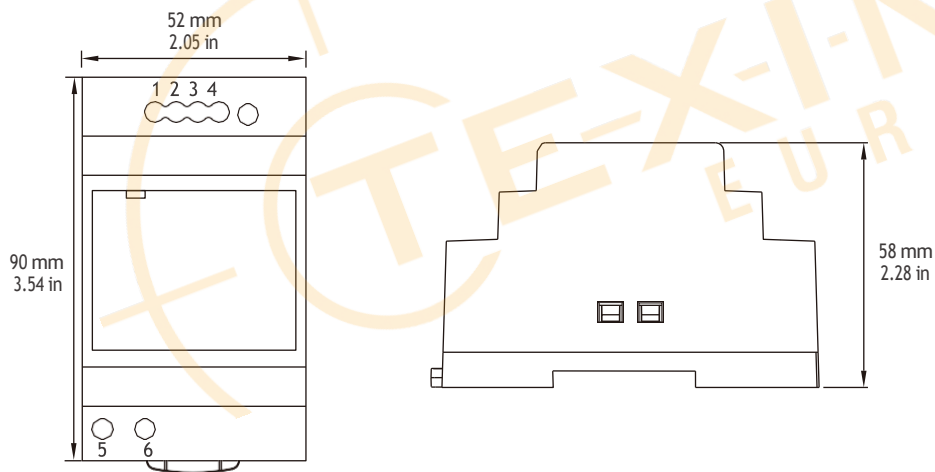
Dimensions & Weight

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



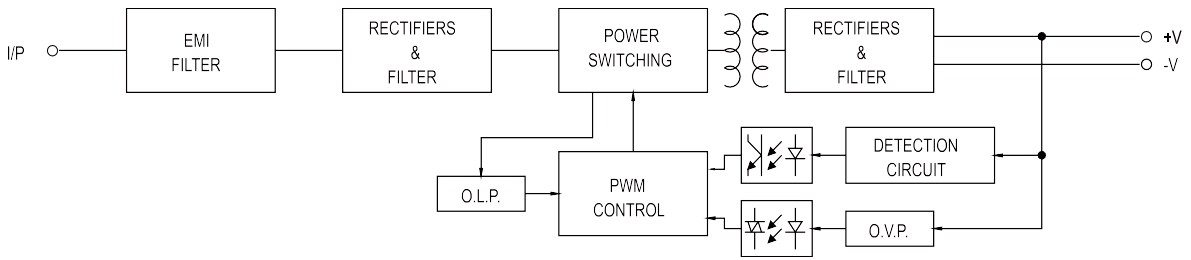
Input

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

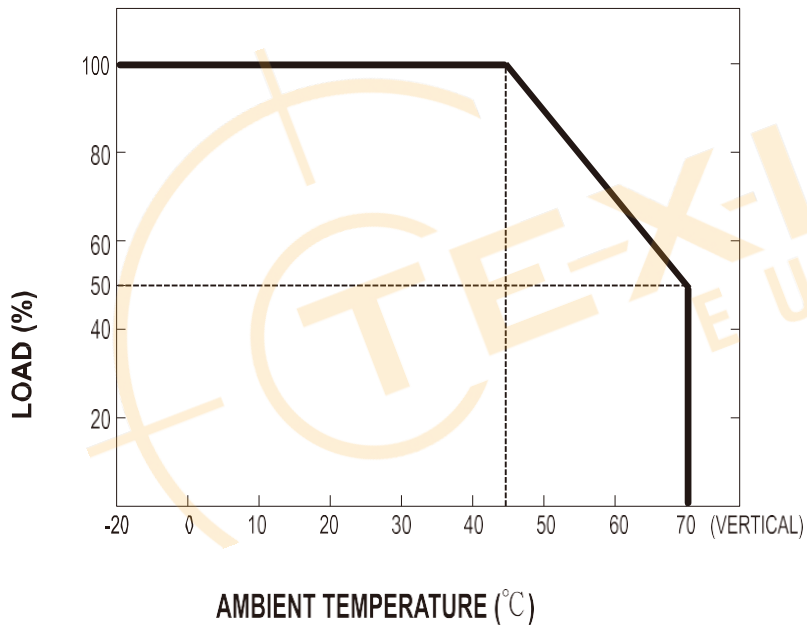
Output

No.	Description
5	AC/L
6	AC/N

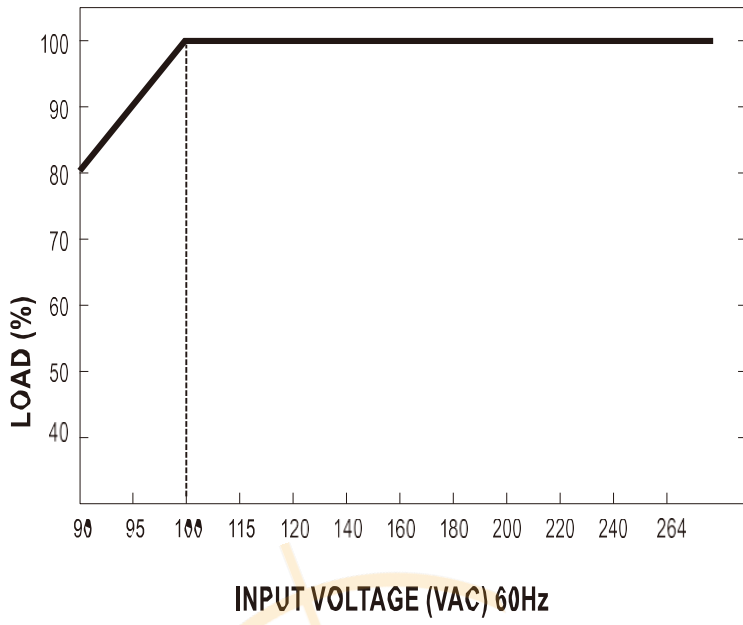
Functional Diagram



Deduction Curve and Temperature



Minus Output and Input Voltage Curves



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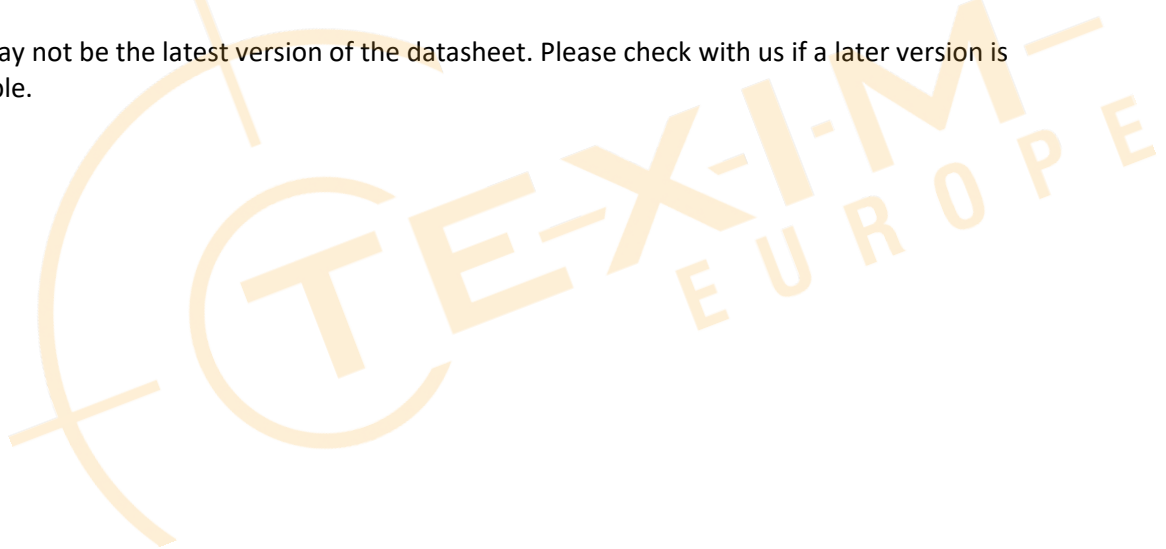
It is the customer's responsibility to validate that a particular product with the properties described in the product specification is suitable for use in a particular application.

Parameters provided in datasheets and / or specifications may vary in different applications and performance may vary over time.

All operating parameters, including typical parameters, must be validated for each customer application by the customer's technical experts.

Please contact us if you have any questions about the contents of the datasheet.

This may not be the latest version of the datasheet. Please check with us if a later version is available.





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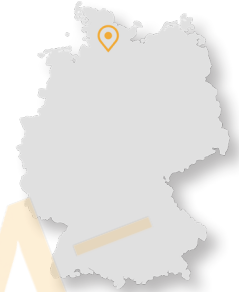
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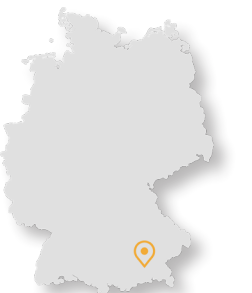
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