

# 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	3A	30W
YSDS-36-12	12V	3A	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/115VAC 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°C ~ +40°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 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°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

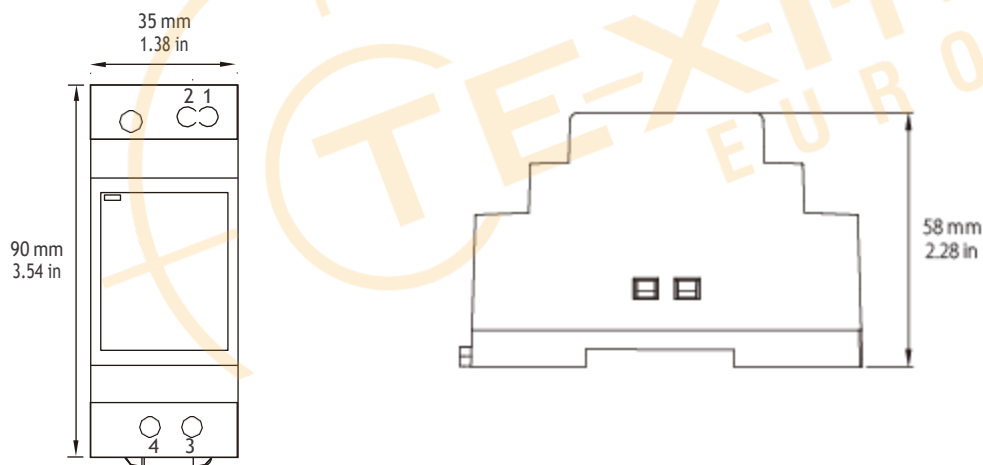
## Dimensions & Weight

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



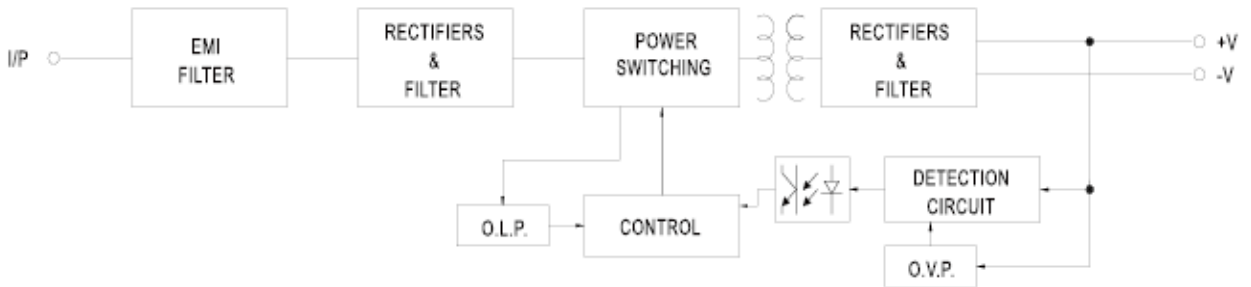
### Input

No.	Description
1	+V
2	-V

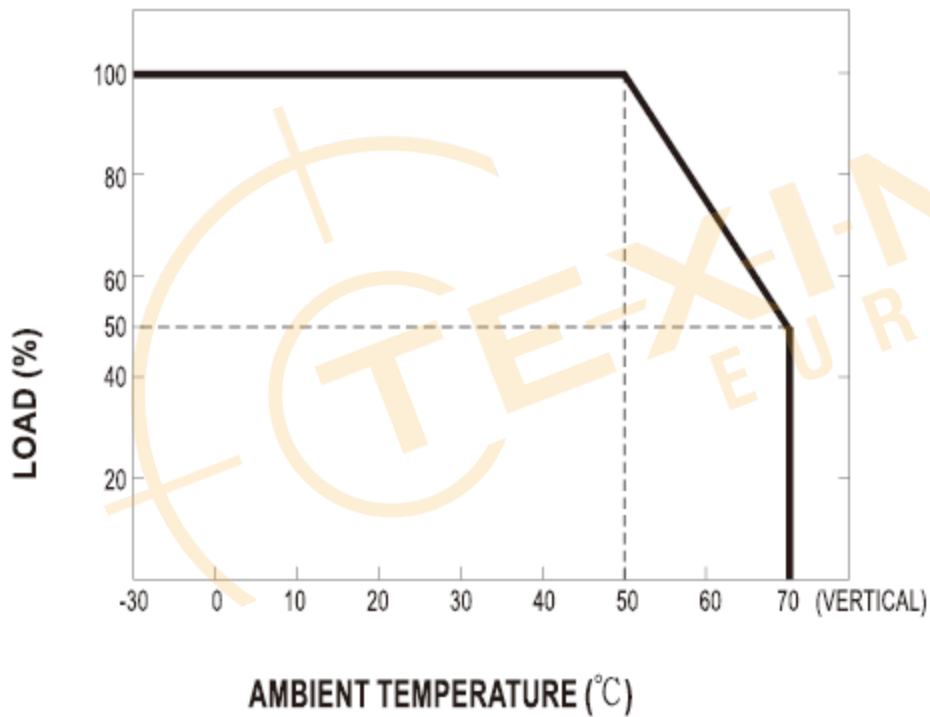
### Output

No.	Description
3	AC/L
4	AC/N

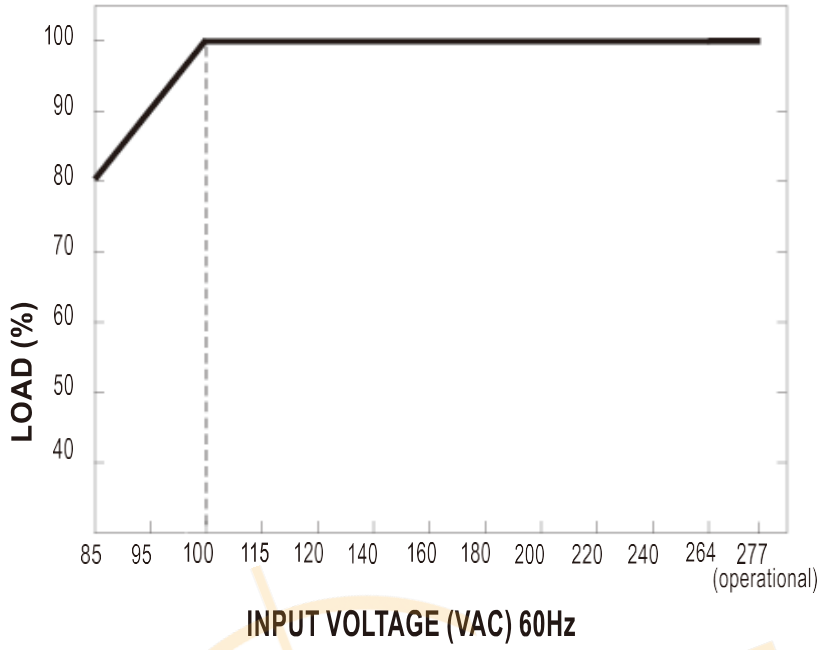
# BLOCK Diagram



## Deduction Curve And Temperature



# Minus Output And Input Voltage Curves



## **Disclaimer**

ALL PRODUCTS, PRODUCT SPECIFICATIONS AND DATA ARE SUBJECT TO CHANGE WITHOUT NOTICE TO IMPROVE RELIABILITY, FUNCTION OR DESIGN OR OTHERWISE.

Texim Europe B.V. its affiliates, agents, and employees, and all persons acting on its or their behalf (collectively, "Texim"), disclaim any and all liability for any errors, inaccuracies or incompleteness contained in any datasheet or in any other disclosure relating to any product.

Texim makes no warranty, representation or guarantee regarding the suitability of the products for any particular purpose or the continuing production of any product.

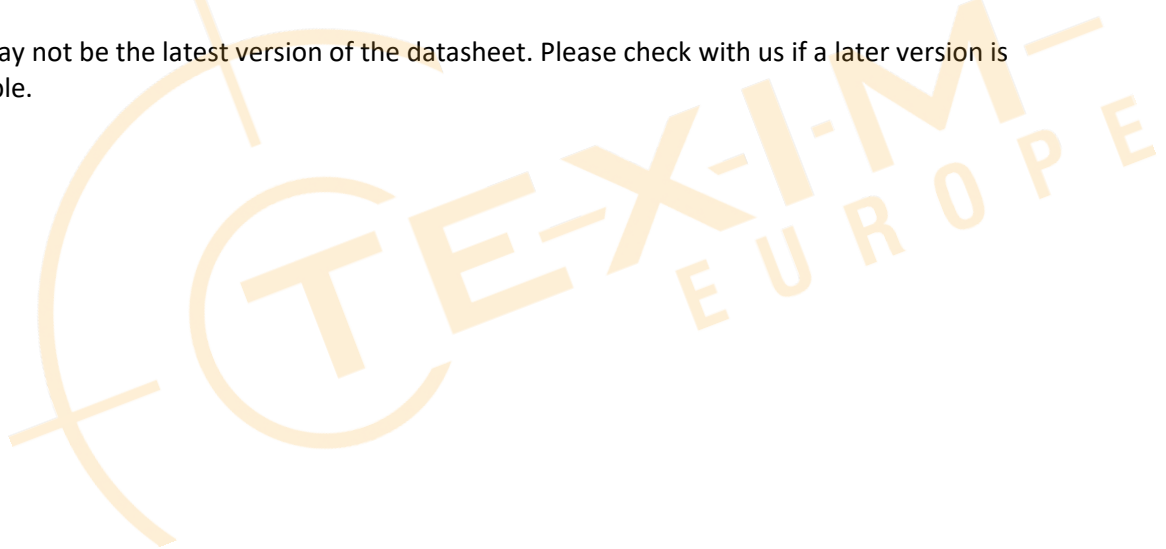
It is the customer's responsibility to validate that a particular product with the properties described in the product specification is suitable for use in a particular application.

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.







## Headquarters & Warehouse

Elektrostraat 17  
NL-7483 PG Haaksbergen  
The Netherlands

T: +31 (0)53 573 33 33  
E: info@texim-europe.com  
Homepage: www.texim-europe.com



### The Netherlands

Elektrostraat 17  
NL-7483 PG Haaksbergen

T: +31 (0)53 573 33 33  
E: nl@texim-europe.com



### Belgium

Zuiderlaan 14, box 10  
B-1731 Zellik

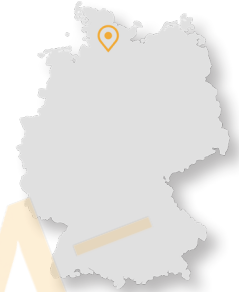
T: +32 (0)2 462 01 00  
E: belgium@texim-europe.com



### UK & Ireland

St Mary's House, Church Lane  
Carlton Le Moorland  
Lincoln LN5 9HS

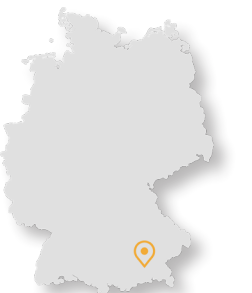
T: +44 (0)1522 789 555  
E: uk@texim-europe.com



### Germany - North

Bahnhofstrasse 92  
D-25451 Quickborn

T: +49 (0)4106 627 07-0  
E: germany@texim-europe.com



### Germany - South

Martin-Kollar-Strasse 9  
D-81829 München

T: +49 (0)89 436 086-0  
E: muenchen@texim-europe.com



### Austria

Warwitzstrasse 9  
A-5020 Salzburg

T: +43 (0)662 216 026  
E: austria@texim-europe.com



### Nordic

Søndre Jagtvej 12  
DK-2970 Hørsholm

T: +45 88 20 26 30  
E: nordic@texim-europe.com



### Italy

Martin-Kollar-Strasse 9  
D-81829 München

T: +49 (0)89 436 086-0  
E: italy@texim-europe.com