

# YSDN480 SERIES 480W










Our metal case power family designed with slim housing and for full range AC input from 90V AC to 264V AC.

The series are single phase PSU, providing adjustable DC out put voltage. They have high efficiency and operate in wide temperature range.

The series can widely used for industrial automation & control systems, varied equipments, etc.



## Features

-  DC O/P Voltage Adjustable
-  Universal AC Input 90-264V
-  Protection: Short Circuit/Overload /Over Voltage/Over Temperature
-  Free Air Convection Design
-  Installation: DIN Rail TS-35/7.5 & 15
-  With build-in active PFC function
-  Three Years Warranty

## Model Information

Part number	DC VOLTAGE	RATED CURRENT (Max.)	RATED POWER	VOLTAGE ADJ. RANGE
YSDN-480-24	24V	20A	480W	24-28V
YSDN-480-48	48V	10A	480W	48-55V

## Input

VOLTAGE RANGE	90 ~ 264VAC, 127 ~ 370VDC [DC input by connecting AC/L(+), AC/N(-)]	
FREQUENCY RANGE	47-63Hz	
POWER FACTOR (Typ.)	>0.98/115VAC	at full load
	> 0.94/230VAC	at full load
EFFICIENCY (Typ.)	92%	
AC CURRENT (Typ.)	4.8A/115VAC	
	2.4A/230VAC	
INRUSH CURRENT (Typ.)	20A/115VAC	
	35A/230VAC	
LEAKAGE CURRENT	<2mA / 240VAC	

## Output

RIPPLE & NOISE (max.)	150mVp-p
VOLTAGE TOLERANCE	±2.0%
LINE REGULATION	±0.5%
LOAD REGULATION	±1.0%
SETUP, RISE TIME	1500ms, 100ms/230VAC at full load
	3000ms, 100ms/115VAC at full load
HOLD UP TIME (Typ.)	16ms/230VAC at full load
	16ms/115VAC at full load

## Protection

OVER LOAD	105 ~ 130% rated output power Protection type: Constant current limiting, unit will shut down after 3 sec., re-power on to recover
OVER VOLTAGE	29 ~ 33V      YSDN-480-24 56 ~ 65V      YSDN-480-48 Protection type: Shut down o/p voltage, re-power on to recover
OVER TEMPERATURE	Shut down o/p voltage, recovers automatically after temperature goes down

## Environment

WORKING TEMP.	-20 ~ +70°C (Refer to "Derating Curve")
WORKING HUMIDITY	20 ~ 95% RH non-condensing
STORAGE TEMP.	-40 ~ +85°C
STORAGE HUMIDITY	10 ~ 95% RH
MTBF	200,000 Hours Minimum at full load a 25°C Ambient

## SAFETY & EMC (Note 4)

SAFETY STANDARDS	UL508, BS/EN62368-1
WITHSTAND VOLTAGE	I/P-0/P:3KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC
ISOLATION RESISTANCE	I/P-0/P, I/P-FG, O/P-FG:>100M Ohms / 500VDC / 25°C/ 70% RH
EMC EMISSION	Compliance o BS EN/EN55032, BS EN/EN61000-3-2,-3
EMC IMMUNITY	Compliance o BS EN/EN61000-4-2,3,4,5,6,8,11, BS EN/EN55035, BS EN/EN61000-6-2 (BS EN/EN50082-2)

## Note

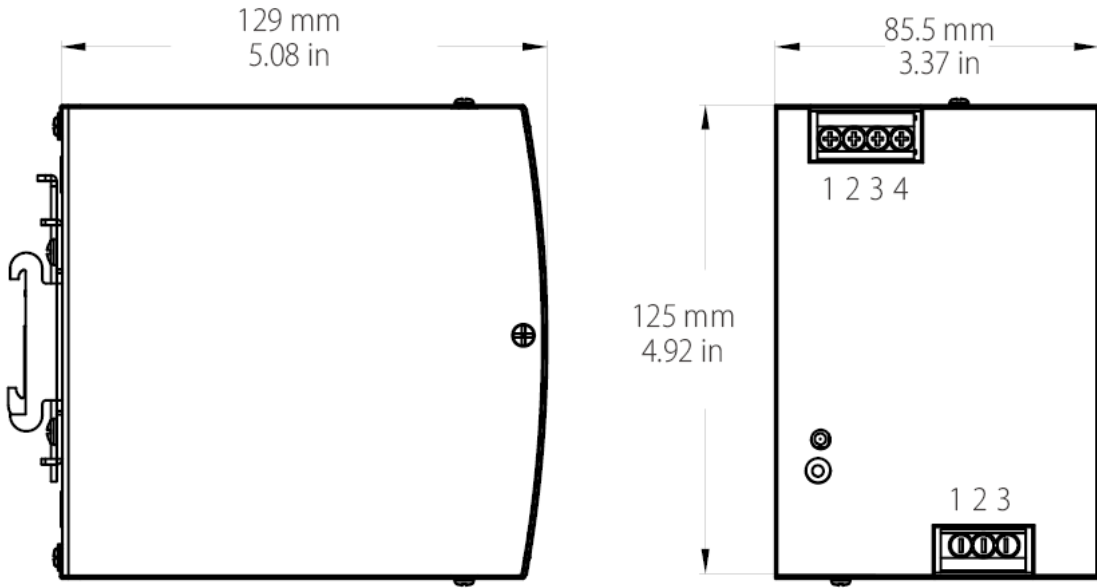
1. All parameters NOT specially mentioned a 230VAC input, rated load and 25°C of ambient temperature.
2. Ripple & noise are measured from peak to peak with band width limit of 20MHz (0.1uF and 47uF/50V parallel capacitor under DC output full load, AC nominal input 25°C ambient temperature).
3. Installation clearances: top with 40mm, bottom with 20mm, left and right with 5mm. Increase the space to 10-15mm when the adjacent device is heat source.
4. Derating may be needed under low input voltage. Please check the derating curve for more details.
5. Efficiency test after 30 minutes of burn-in
6. The ambient temperature derating of 3.5 °C/1000m for operating altitude higher than 2000m(6500ft).

## Dimensions & Weight

Length:	85.5mm / 3.37in
Width:	125mm / 4.92in
Height:	129mm / 5.08in
Weight:	1.5kg

## Packing

Carton Size:	49 x 34.5 x 16.5 CM
	19.29 x 13.58 x 6.5 in
Master Carton Quantities:	8pcs / Carton



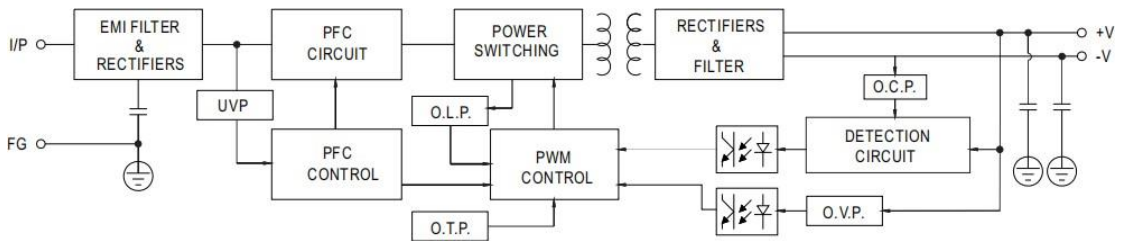
### Input

Pin No.	Description
1	FG ⚡
2	AC/N or DC -
3	AC/L or DC +

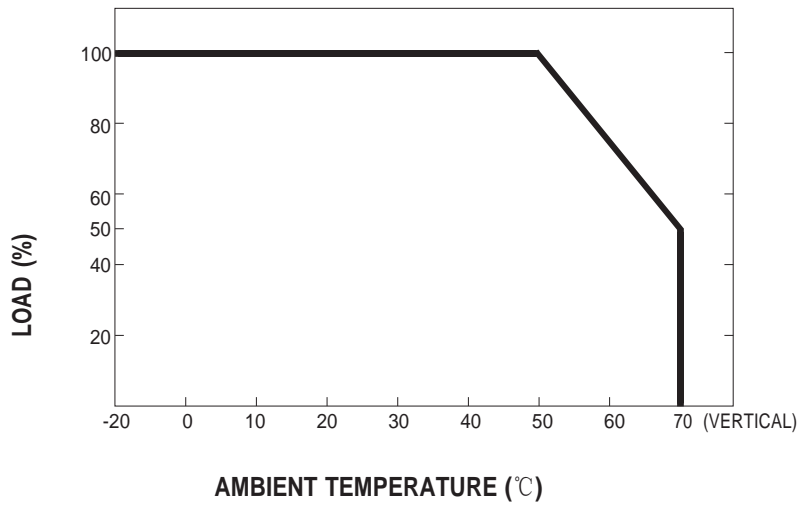
### Output

Pin No.	Description
1,2	DC OUTPUT -V
3,4	DC OUTPUT +V

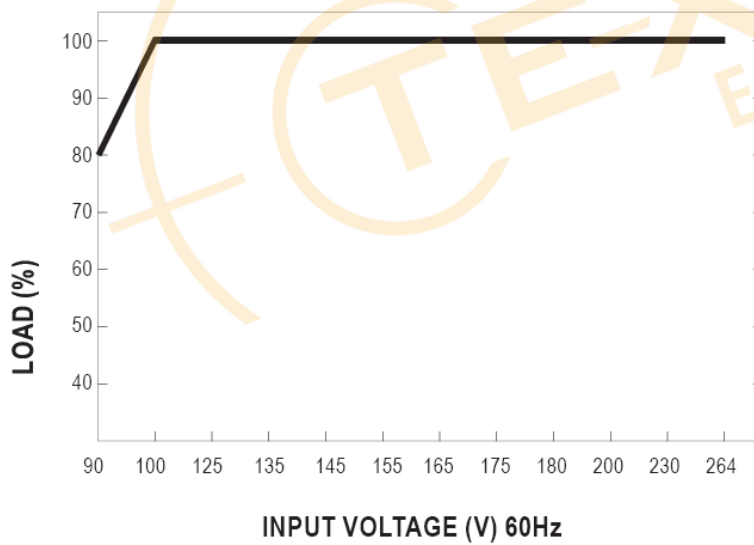
## Block Diagram



## Deduction Curve And Temperature



## Minus Output And Input Voltage Curves



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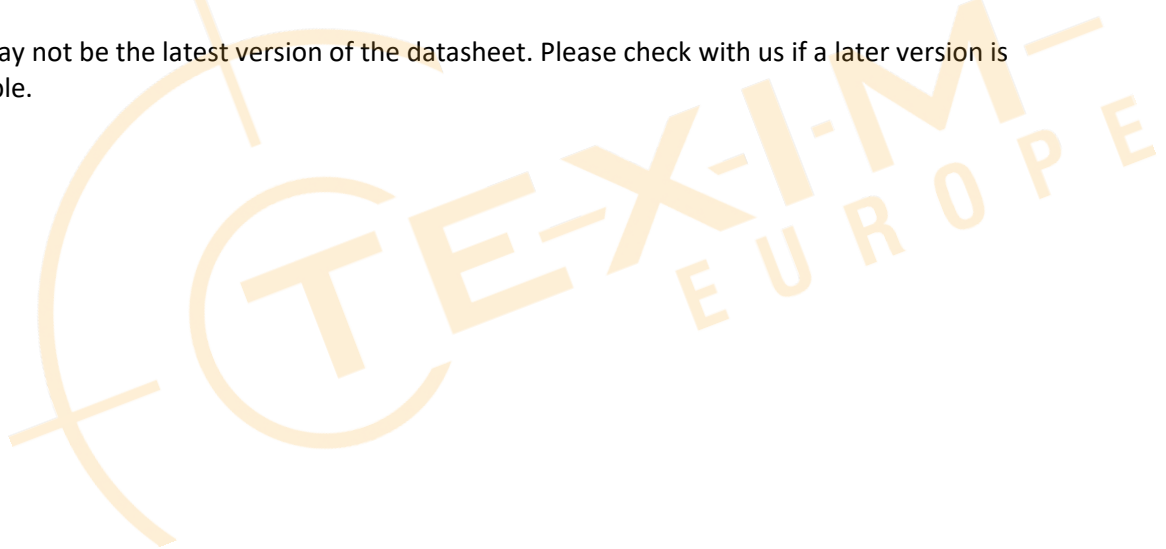
It is the customer's responsibility to validate that a particular product with the properties described in the product specification is suitable for use in a particular application.

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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