

# YSDN75 SERIES 75W



Yingjiao's 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 output 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



Three Years Warranty

## Model Information

Yingjiao Part number	DC VOLTAGE	RATED CURRENT (Max.)	RATED POWER	VOLTAGE ADJ. RANGE
YSDN75-1206300	12V	6.3A	75.6W	12-14V
YSDN75-2403200	24V	3.2A	76.8W	24-28V
YSDN75-4801600	48V	1.6A	76.8W	48-55V

## Input

VOLTAGE RANGE	90 ~ 264VAC, 127 ~ 370VDC [DC input by connecting AC/L(+),AC/N(-)]
FREQUENCY RANGE	47~63Hz
EFFICIENCY (Typ.)	85.50%    YSDN75-1206300 88.00%    YSDN75-2403200 88.00%    YSDN75-4801600
AC CURRENT (Typ.)	1.45A/115VAC 0.9A/230VAC
INRUSH CURRENT (Typ.)	95A/115VAC 41A/230VAC
LEAKAGE CURRENT	<1mA / 240VAC

## Output

RIPPLE & NOISE (max.)	80mVp-p    YSDN75-1206300 120mVp-p    YSDN75-2403200 150mVp-p    YSDN75-4801600
VOLTAGE TOLERANCE	± 2.0%
LINE REGULATION	± 0.5%
LOAD REGULATION	± 1.0%
SETUP, RISE TIME	1200ms, 60ms/230VAC    at full load 2000ms, 60ms/115VAC    at full load
HOLD UP TIME (Typ.)	60ms/230VAC    at full load 12ms/115VAC    at full load

## Protection

<b>OVER LOAD</b>	105 ~ 130% rated output power Protection type : Constant current limiting, recovers automatically after fault condition is removed
<b>OVER VOLTAGE</b>	14~17V    YSDN75-1206300 29 ~ 33V    YSDN75-2403200 56 ~ 65V    YSDN75-4801600 Protection type : Shut down o/p voltage, re-power on to recover
<b>OVER TEMPERATURE</b>	Protection type : Shut down o/p voltage, re-power on to recover

## Environment

<b>WORKING TEMP.</b>	-20 ~ +70 °C (Refer to "Derating Curve")
<b>WORKING HUMIDITY</b>	20 ~ 95% RH non-condensing
<b>STORAGE TEMP.</b>	-40 ~ +85 °C, 10 ~ 95% RH
<b>STORAGE HUMIDITY</b>	10 ~ 95% RH
<b>MTBF</b>	2343.7K hrs min. Telcordia SR-332 (Bellcore)

## SAFETY & EMC

<b>SAFETY STANDARDS</b>	UL508, BS/EN62368-1
<b>WITHSTAND VOLTAGE</b>	I/P-O/P:3KVAC    I/P-FG:2KVAC    O/P-FG:0.5KVAC
<b>ISOLATION RESISTANCE</b>	I/P-O/P, I/P-FG, O/P-FG:>100M Ohms / 500VDC / 25 °C / 70% RH
<b>EMC EMISSION</b>	Compliance to BS EN/EN55032 , BS EN/EN61000-3-2,-3
<b>EMC IMMUNITY</b>	Compliance to 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 at 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).

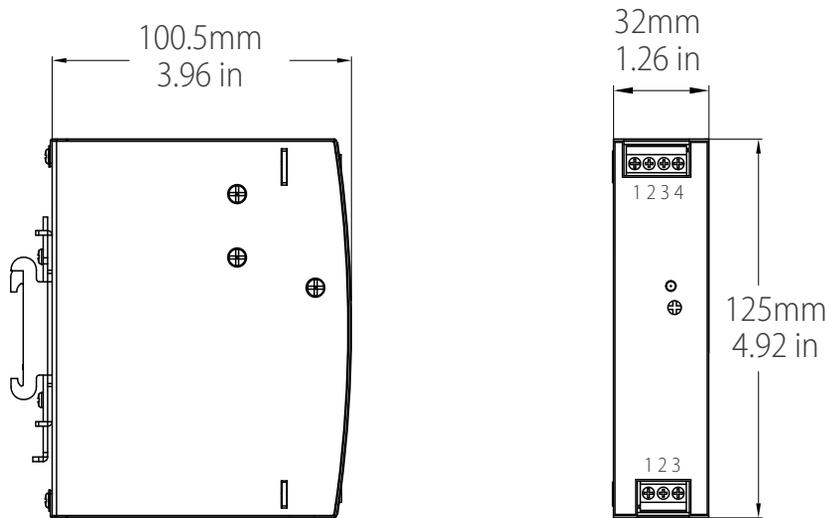
## Dimensions & Weight

<b>Width:</b>	32mm / 1.26in
<b>Height:</b>	125mm / 4.92in
<b>Depth:</b>	100.5mm / 3.96in
<b>Weight:</b>	0.51kg

## Packing

<b>Carton Size:</b>	31.5 x 30 x 30 CM 12.4 x 11.8 x 11.81 in
<b>Master Carton Quantities:</b>	20pcs / Carton

# Mechanical Specification



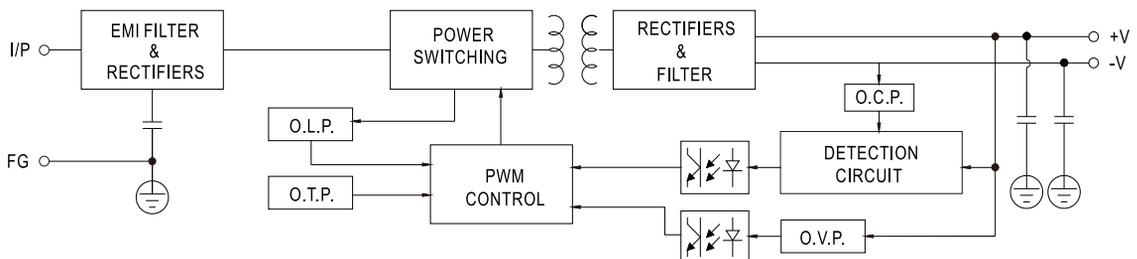
## Input

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

## Output

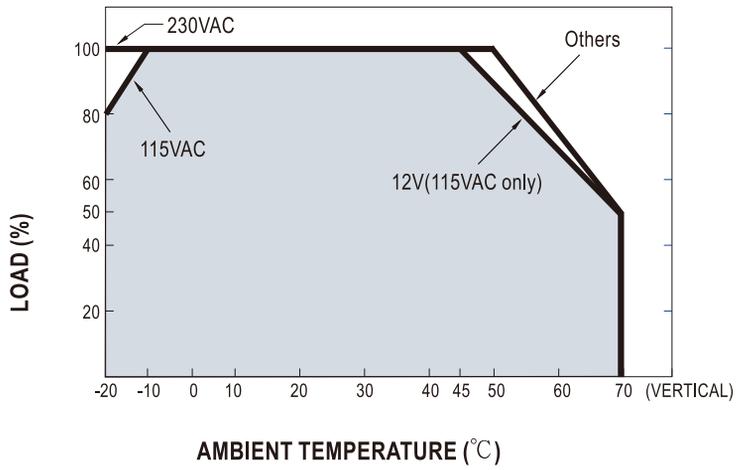
No.	Description
1,2	DC OUTPUT -V
3,4	DC OUTPUT +V

# Block Diagram



## Deduction Curve And Temperature

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## Minus Output And Input Voltage Curves

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