

YEP320 SERIES 320W



CE UK
CA

YEP series are designed with lower profile housing and for wide range AC input from 90 VAC to 305V AC.

The series have build-in active function and operate for the temperature up to 70 °C .

The good performance can be used for industrial automation & control systems, varied equipments etc.

Features



Universal AC Input/ Full Range



Built-in Active PFC Function



Forced air cooling by build-in DC fan



High Efficiency Up To 90%



Protection: Short Circuit/Overload/
Over Voltage/Over Temperature



Three Years Warranty

Model Information

Yingjiao Part number	DC VOLTAGE	RATED CURRENT	RATED POWER	VOLTAGE ADJ. RANGE
YEP320-5	5V	60A	300W	4.5~5.5V
YEP320-12	12V	26.7A	320.4W	10~13.2V
YEP320-15	15V	21.4A	321W	13.5~18V
YEP320-24	24V	13.4A	321.6W	20~26.4V
YEP320-48	48V	6.7A	321.6W	41~56V

Input

VOLTAGE RANGE Note. 4	90-305VAC/127-430VDC	
FREQUENCY RANGE	47-63Hz	
POWER FACTOR(Typ.)	PF>0.95/230VAC at full load PF>0.98/115VAC at full load	
EFFICIENCY(Typ.)	83%	YEP320-5
	88%	YEP320-12
	88.5%	YEP320-15
	89%	YEP320-24
	90%	YEP320-48
AC CURRENT(Typ.)	4A/115VAC	
	2A/230VAC	
INRUSH CURRENT(Typ.)	20A/115VAC	
	40A/230VAC	
LEAKAGE CURRENT	<1mA/240VAC	

Output

RIPPLE & NOISE(max.) Note. 2	150mVp-p	YEP320-5
	150mVp-p	YEP320-12
	150mVp-p	YEP320-15
	150mVp-p	YEP320-24
	240mVp-p	YEP320-48
VOLTAGE TOLERANCE Note. 3	$\pm 2.0\%$	
LINE REGULATION	$\pm 0.5\%$	
LOAD REGULATION	$\pm 1.0\%$	YEP320-5
	$\pm 1.0\%$	YEP320-12
	$\pm 1.0\%$	YEP320-15
	$\pm 0.5\%$	YEP320-24
	$\pm 0.5\%$	YEP320-48
SET UP TIME	1500ms, 50ms/230VAC at full load	
RISE TIME	3000ms, 50ms/115VAC at full load	
HOLD UP TIME(Typ.)	8ms at full load, 230VAC /115VAC	

Protection

OVER LOAD	105%-135% Rated Output Power
	Protection type: Hiccup mode, recovers automatically after fault condition is removed.
OVER VOLTAGE	5V: 5.75~ 6.75V
	12V: 13.8 ~ 16.2V
	15V: 18.8 ~ 21.8V
	24V: 27.6 ~ 32.4V
	48V: 58.4~ 68V
	Protection type : Shut down o/p voltage, re-power on to recover.
OVER TEMPERATURE	Protection type : Shut down o/p voltage, recovers automatically after temperature goes down.

Environment

WORKING TEMP.	-30 °C to +70 °C (Refer to “Derating Curve”)
WORKING HUMIDITY	20 ~ 90% RH non-condensing
STORAGE TEMP., HUMIDITY	-40 °C to +85 °C , 10 ~ 95% RH
TEMP. COEFFICIENT	± 0.03%/°C (0~50 °C)
VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes
MTBF	1500K hrs min. Telcordia SR-332 (Bellcore)

Safety & EMC(Note 5)

SAFETY STANDARDS	BS EN/EN62368-1, BS EN/EN61558-1
WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC
ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25 °C / 70% RH
EMC EMISSION	Compliance to BS EN/EN55032 (CISPR32) Class B, BS EN/EN61000-3-2,-3
EMC IMMUNITY	Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11, BS EN/EN55035

Note

1.All parameters NOT specially mentioned are measured 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.Derating may be needed under low input voltages. Please check the derating curve for more details.

4.The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives. For guidance on how to perform these EMC tests, please refer to “EMI testing of component power supplies.”

5.The output capacitive loads should not exceed 5000 uf.

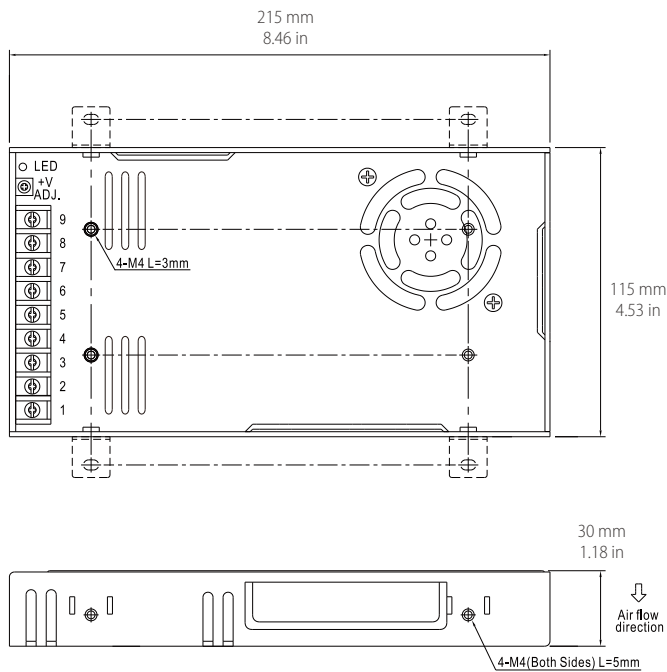
Dimensions & Weight

Length:	215mm / 8.46in
Width:	115mm / 4.53in
Height:	30mm / 1.18in
Weight:	150g

Packing

Carton Size(L x W x H):	38 x 19.5 x 26 CM 14.96 x 7.68 x 10.24 in
Master Carton Quantities:	15pcs / Carton

Mechanical Specification



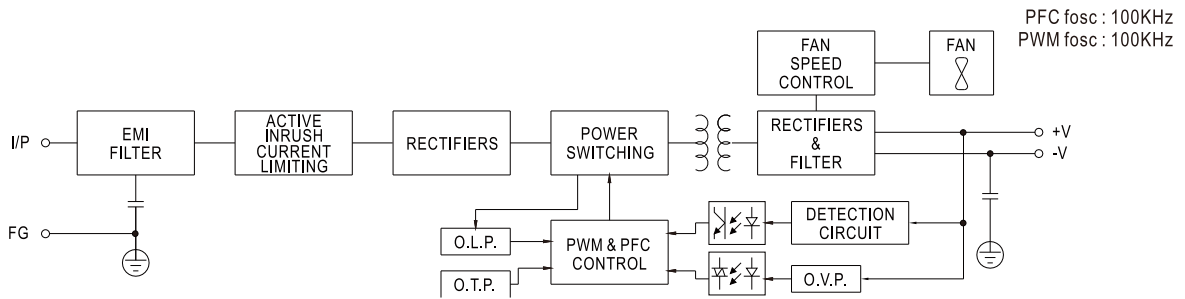
Input

No.	Description
1	AC/L
2	AC/N
3	FG \perp

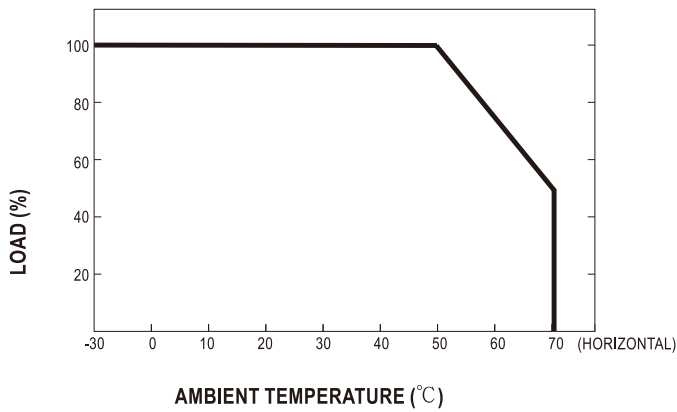
Output

No.	Description
4~6	DC OUTPUT -V
7~9	DC OUTPUT +V

Block Diagram



Derating Curve



Static Characteristics

