

320W



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 $^{\circ}$ C.

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





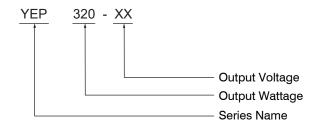




Features

- Universal AC Input/ Full Range
- Built-in Active PFC Function
- Forced air cooling by build-in DC fan
- High efficiency up to 90%
- Over voltage category II
- Protections: Short circuit/Over load/Over voltage/Over temperature
- Three years warranty

Model Description



Model Information

Part number	DC Voltage	Rated Current(max.)	Rated Power	Efficiency	Ripple & Noise	Max Capacitive Load	Voltage ADJ Range
YEP320-5	5V	60A	300W	83%	150mVp-p	4000uF	4.5~5.5V
YEP320-7.5	7.5V	40A	300W	85%	150mVp-p	3600uF	6.75~8.25V
YEP320-12	12V	26.7A	320.4W	88%	150mVp-p	3300uF	10~13.2V
YEP320-13.5	13.5V	23.8A	321.3W	88%	150mVp-p	2500uF	12.15~14.85V
YEP320-15	15V	21.4A	321W	88.5%	150mVp-p	1500uF	13.5~18V
YEP320-24	24V	13.4A	321.6W	89%	150mVp-p	1000uF	20~26.4V
YEP320-27	27V	11.9A	321.3W	89%	150mVp-p	900uF	26.1~29.7V
YEP320-36	36V	8.9A	320.4W	89.5%	180mVp-p	700uF	32.4~39.6V
YEP320-48	48V	6.7A	321.6W	90%	240mVp-p	470uF	43.2~52.8V
YEP320-60	60V	5.34A	320.4W	90.5%	300mVp-p	230uF	54~66V

File last modification time: 2025-2-25



320W

Specification

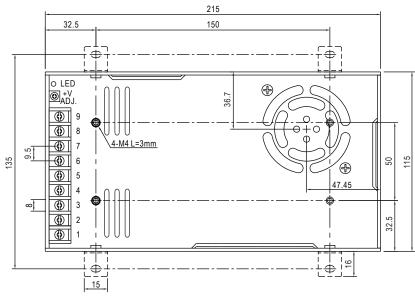
Model	Safety Model No.	YEP320-XX					
	Setup,Rise,Hold up Time	1.5s,50ms,8ms/230VAC(at full load) 3.0s,50ms,8ms/115VAC(at full load)					
Out-ut	Voltage Tolerance	±2.0%					
Output	Line Regulation	±0.5%					
	Load Regulation	±1.0% YEP320-5/7.5/12/13.5/15 ±0.5% YEP320-24/27/36/48/60					
	Rated Voltage Range	100-277VAC/127-430VDC					
	AC Voltage Range	90-305VAC/127-430VDC					
	Frequency Range	50/60Hz					
Input	AC Current	4A/115VAC 2A/230VAC					
	Inrush Current	Cold Start 40A/200us at 230VAC 50Hz Cold Start 20A/200us at 115VAC 50Hz					
	Leakage Current	<1mA/240VAC					
	Power Factor(Typ.)	>0.95/230VAC at full load >0.98/115VAC at full load					
		105~135%Rated Output Power					
	Over Load	Hiccup mode, recovers automatically after fault condition is removed.					
Dunta ation	Short Circuit	Hiccup mode, recovers automatically after fault condition is removed.					
Protection		115~135%Rated Output Voltage					
	Over Voltage	Shut down o/p voltage, re-power on to recover.					
	Over Temperature	Shut down o/p voltage, recovers automatically after temperature goes down.					
	Working TEMP.	-30 ~ +70 ℃ (Please refer to "Derating Curve"section)					
	Working Humidity	20 ~ 95%RH Non-condensing					
	Storage TEMP. Humidity	-40 ~ +85 ℃,10 ~ 95%RH Non-condensing					
Ambient	TEMP. Coefficient	±0.03%/(0 ~ 50 ℃) on load output					
	Vibration	Component: 10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes					
	Safety Protection	Class I					
	Over Voltage Category	OVC II / According to EN62368-1;altitude up to 2000 meters					
	Safety Standards BS EN/EN62368-1						
Safety	Withstand Voltage	I/P-O/P:3KVAC/1min I/P-FG:2KVAC/1min O/P-FG:0.5KVAC/1min					
	Isolation Resistance	-O/P:100M Ohms / 500VDC / 25 C / 70% RH					
EMC	EMC EMISSION	Compliance to BS EN/EN55032 (CISPR32) Class B, BS EN/EN61000-3-2 Class A-D,BS EN/EN61000-3-3					
LIVIC	EMC IMMUNITY	Compliance to BS EN/EN61000-4-11 Criteria B, BS EN/EN61000-4-2,3,4,5,6,8 Criteria A					
	Packing	1kg/pcs; 38 x 19.5 x 26 cm; 15pcs/carton					
Others	Dimension (LxWxH)	215 x 115 x 30 mm					
	MTBF	188.4Khrs min. MIL-HDBK-217F(25 ℂ)					
	Housing material	Aluminium / steel					
Note	1.All parameters NOT specially mentioned are measured at 115/230VAC input, rated load and 25 °C of ambient temperature. 2.Ripple&noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. 3.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". (as available on https://yingji-ao.com/wp-content/uploads/2025/06/EMI_Testing_of_Component_Power_Supplies_Yingjiao.pdf) 4.Derating may be needed under low input voltages. Please check the derating curve for more details. 5.Strongly recommended that external output capacitance should not exceed 10000uF(Only for the models with output voltage 5/12V) 6.The ambient temperature derating of 3.5 °C/1000m with fanless models and of 5 °C/1000m with fan models for operating altitude higher than 2000m(6500ft).						



320W

Drawing & Label

(Unit: mm , tolerance: ±1mm)



Output		
No.	Description	
4,5,6	DC OUTPUT -V	
7,8,9	DC OUTPUT +V	

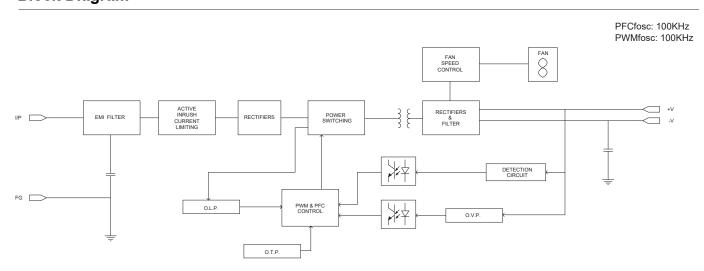
32.5		150)	-			
	2 2 6:9					30	Air flow direction
6.5	6.5	.			4-M4(Bot	th Sides) L	=5mm

Input	Input		
No. Description			
1	AC/L		
2	AC/N		
3	PE		



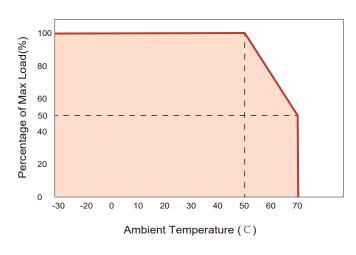
320W

Block Diagram



Engineering Data

Derating Curve



Static Characteristics

