

YEP200 SERIES 200W



   RoHS

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



Built-in Active PFC Function



Cooling by free air convection



Higher Efficiency



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
YEP200-5	5V	40A	200W	4.5~5.5V
YEP200-12	12V	16.7A	200.4W	10~13.2V
YEP200-15	15V	13.4A	201W	13.5~18V
YEP200-24	24V	8.4A	201.6W	20~26.4V
YEP200-48	48V	4.2A	201.6W	41~56V
YEP200-56	56V	3.6A	201.6W	50~62V

Input

VOLTAGE RANGE	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%	YEP200-5
	84%	YEP200-12
	85%	YEP200-15
	87%	YEP200-24
	88%	YEP200-48
	88%	YEP200-56
AC CURRENT(Typ.)	2.5A/115VAC	
	1.3A/230VAC	
INRUSH CURRENT(Typ.)	20A/115VAC	
	40A/230VAC	
LEAKAGE CURRENT	<1mA/240VAC	

Output

RIPPLE & NOISE(max.)	150mVp-p	YEP200-5
	150mVp-p	YEP200-12
	150mVp-p	YEP200-15
	150mVp-p	YEP200-24
	240mVp-p	YEP200-48
	240mVp-p	YEP200-56
VOLTAGE TOLERANCE	$\pm 2.0\%$	
LINE REGULATION	$\pm 0.5\%$	
LOAD REGULATION	$\pm 1.0\%$	YEP200-5
	$\pm 1.0\%$	YEP200-12
	$\pm 1.0\%$	YEP200-15
	$\pm 0.5\%$	YEP200-24
	$\pm 0.5\%$	YEP200-48
	$\pm 0.5\%$	YEP200-56
SETUP, RISE TIME	1500ms, 50ms/230VAC at full load	
	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~ 7V 12V: 13.8 ~ 16.2V 15V: 18.8 ~ 21.8V 24V: 27.6 ~ 32.4V 48V: 58.4~ 68V 56V: 65-70V 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 non-condensing
TEMP. COEFFICIENT	± 0.03%/ °C (0~45 °C)
VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes
MTBF	1766.4K hrs min. Telcordia SR-332 (Bellcore)

Safety & EMC

SAFETY STANDARDS	BS EN/EN62368-1
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 ambient temperature derating of 5 °C /1000m with fan models for operating altitude higher than 2000m (6500ft) .

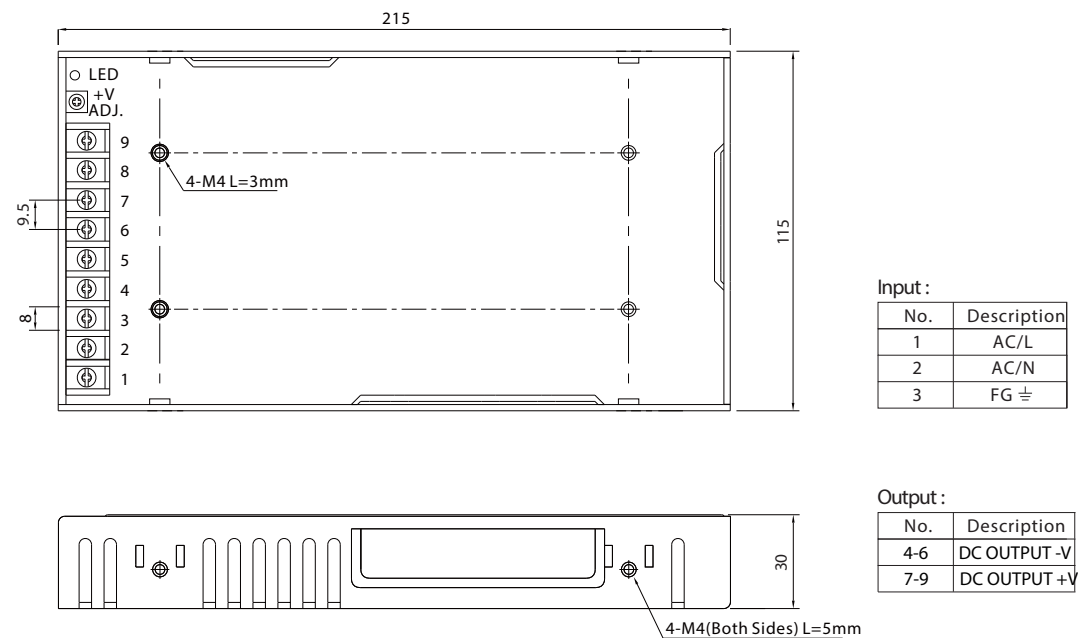
Dimensions & Weight

Length:	215mm / 8.46in
Width:	115mm / 4.53in
Height:	30mm / 1.18in
Weight:	720g

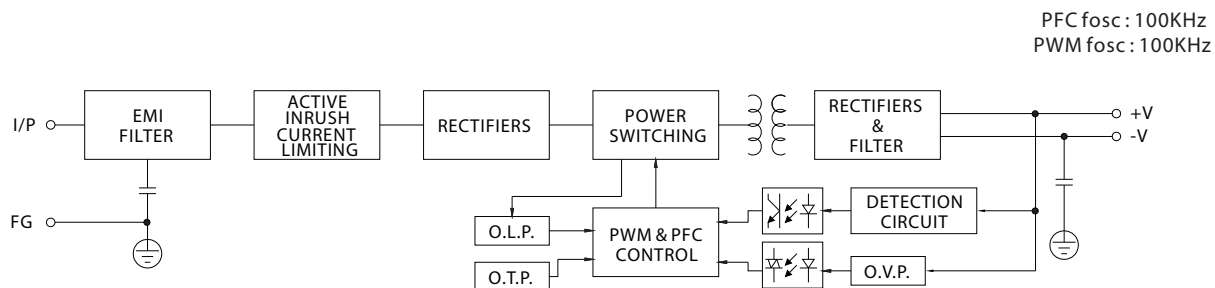
Packing

Carton Size:	38 x 19.5 x 26 CM 14.96 x 7.68 x 10.24 in
Master Carton Quantities:	15pcs / Carton

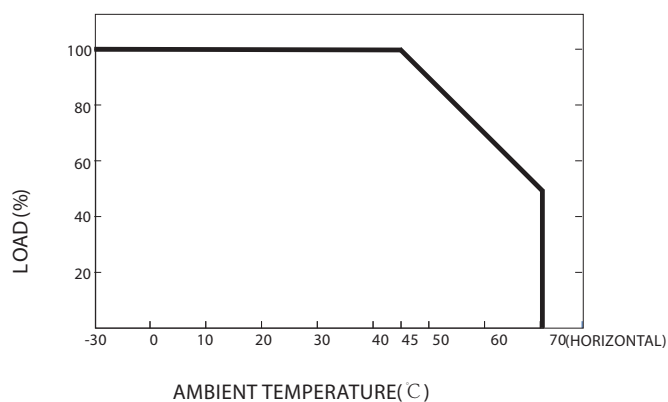
Mechanical Specification



Block Diagram



Derating Curve



Static Characteristics

