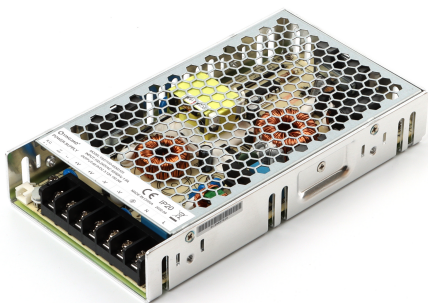


YEP150 SERIES 150W



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.

   RoHS

Features



Universal AC Input/ Full Range



Built-in Active PFC Function



Built-in Remote ON-OFF Control



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
YSEP150-5	5V	30A	150W	4.75~5.5V
YSEP150-12	12V	12.5A	150W	11.4~13.2V
YSEP150-15	15V	10A	150W	14.3~16.5V
YSEP150-24	24V	6.3A	151.2W	22.8~26.4V
YSEP150-27	27V	5.6A	151.2W	25.7~29.7V
YSEP150-48	48V	3.2A	153.6W	45.6~52.8V

Input

VOLTAGE RANGE	90-305VAC/127-430VDC	
FREQUENCY RANGE	47-63Hz	
POWER FACTOR(Typ.)	PF>0.93/230VAC at full load PF>0.98/115VAC at full load	
EFFICIENCY(Typ.)	87%	YSEP150-5
	89%	YSEP150-12
	88.5%	YSEP150-15
	89%	YSEP150-24
	89.5%	YSEP150-27
	90%	YSEP150-48
AC CURRENT(Typ.)	1.6A/115VAC 0.8A/230VAC	
INRUSH CURRENT(Typ.)	COLD START 45A/230VAC	
LEAKAGE CURRENT	<2mA/240VAC	

Output

RIPPLE & NOISE(max.)	100mVp-p	YEP150-5
	100mVp-p	YEP150-12
	100mVp-p	YEP150-15
	150mVp-p	YEP150-24
	150mVp-p	YEP150-27
	250mVp-p	YEP150-48
VOLTAGE TOLERANCE	$\pm 2.0\%$	
LINE REGULATION	$\pm 0.5\%$	
LOAD REGULATION	$\pm 1.0\%$	YEP150-5
	$\pm 0.5\%$	YEP150-12
	$\pm 0.5\%$	YEP150-15
	$\pm 0.5\%$	YEP150-24
	$\pm 0.5\%$	YEP150-27
	$\pm 0.5\%$	YEP150-48
SETUP, RISE TIME	600ms, 30ms at full load	
HOLD UP TIME(Typ.)	16ms at full load	

Protection

OVER LOAD	105%-135% Rated Output Power
	Protection type: Constant current limiting, recovers automatically after fault condition is removed.
OVER VOLTAGE	5V:5.75~ 6.75V
	12V:13.2 ~ 16.2V
	15V:16.5 ~ 20.25V
	24V:26.4 ~ 32.4V
	27V:29.7 ~ 36.45V
	48V:52.8~ 64.8V
OVER TEMPERATURE	Protection type : Shut down o/p voltage, re-power on to recover.
	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	± 0.05%/ °C (0~50 °C)
VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes
OVER VOLTAGE CATEGORY	III ; According to EN61558, EN50178, EN60664-1, EN62477-1; altitude up to 2000 meters
MTBF	1915.82K hrs min. Telcordia SR-332 (Bellcore)

Safety & EMC

SAFETY STANDARDS	BS EN/EN62368-1, BS EN/EN61558-1,BS EN/EN61558-2-16
WITHSTAND VOLTAGE	I/P-O/P:4KVAC 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 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

Function

REMOTE CONTROL	CN1: < 0~0.8VDC POWER ON , 4~10VDC POWER OFF
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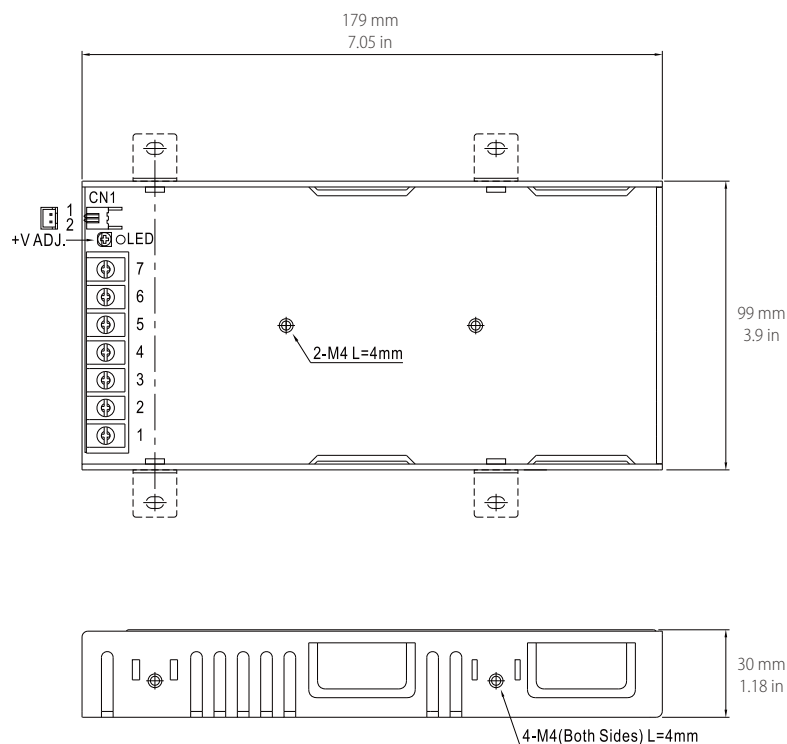
Note

- 1.All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25 °C of ambient temperature.
- 2.Ripple&noise are measured 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."
- 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 5000uF(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).

Dimensions & Weight

Length:	179mm / 7.05in
Width:	99mm / 3.9in
Height:	30mm / 1.18in
Weight:	150g

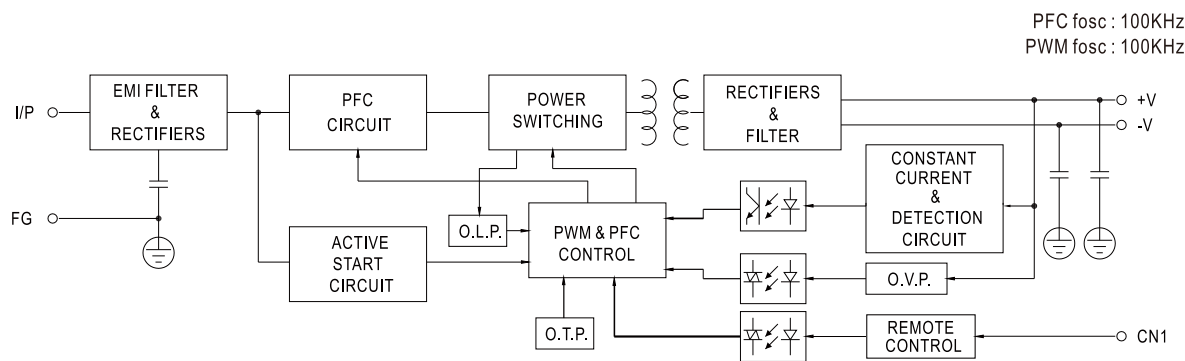
Mechanical Specification



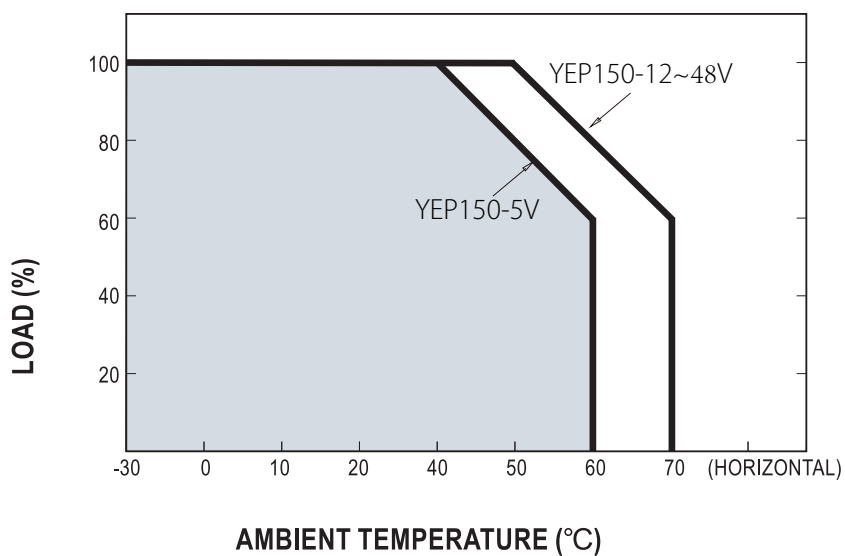
Input	
No.	Description
1	AC/L
2	AC/N
3	FG \perp

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

Block Diagram



Deduction curve and temperature



Minus output and input voltage curves

