YINGJIAO

YEP150 SERIES
150W

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

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

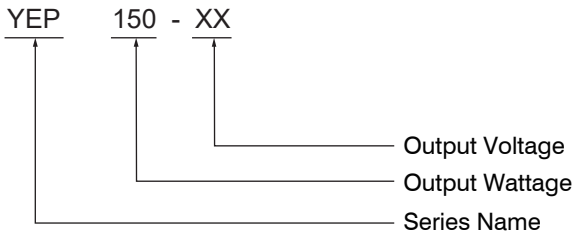
The good performance can be used for industrial automation & control systems, varied equipments etc.

c UL us UL62368-1 CE UKCA RoHS

Features

- Universal AC Input/ Full Range
- Built-in Active PFC Function
- Cooling by free air convection
- High efficiency up to 89%
- 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
YEP150-5	5V	30A	150W	87%	150mVp-p	14000uF	4.75~5.5V
YEP150-7.5	7.5V	20A	150W	87.5%	150mVp-p	12000uF	7.13~8.25V
YEP150-12	12V	12.5A	150W	85%	150mVp-p	10000uF	11.4~13.2V
YEP150-13.5	13.5V	11.2A	151.2W	89%	150mVp-p	8000uF	12.8~14.9V
YEP150-15	15V	10A	150W	88.5%	150mVp-p	6000uF	14.3~16.5V
YEP150-24	24V	6.3A	151.2W	88%	200mVp-p	2400uF	22.8~26.4V
YEP150-27	27V	5.6A	151.2W	88.5%	150mVp-p	1800uF	25.7~29.7V
YEP150-36	36V	4.2A	151.2W	87.5%	180mVp-p	1200uF	34.2~39.6V
YEP150-48	48V	3.2A	153.6W	89%	240mVp-p	600uF	45.6~52.8V
YEP150-60	60V	2.56A	153.6W	87.5%	300mVp-p	600uF	56~66V

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Specification

Model	**Safety Model No.**	**YEP150-XX**	
Output	**Setup,Rise,Hold up Time**	2.0s,30ms,16ms/230VAC(at full load)	2.0s,30ms,16ms/115VAC(at full load)
	Voltage Tolerance	±2.0% YEP150-5/7.5/12/13.5/15	±1.0% YEP150-24/27/36/48/60
	Line Regulation	±0.5%	
	Load Regulation	±1.0% YEP150-5/7.5	±0.5% YEP150-12/13.5/15/24/27/36/48/60
Input	**Rated Voltage Range**	100-277VAC	
	AC Voltage Range	90-305VAC/127-430VDC	
	Frequency Range	50/60Hz	
	AC Current	1.9A/115VAC 1A/230VAC	
	Inrush Current	Cold Start 65A/600us at 230VAC 50Hz	Cold Start 35A/600us at 115VAC 50Hz
	Leakage Current	<2mA/240VAC	
	Power Factor(Typ.)	>0.93/230VAC at full load	>0.98/115VAC at full load
Protection	**Over Load**	105~160%Rated Output Power	
		Hiccup mode, recovers automatically after fault condition is removed.	
	Short Circuit	Hiccup mode, recovers automatically after fault condition is removed.	
	Over Voltage	115~150%Rated Output Voltage	
		Shut down o/p voltage, re-power on to recover.	
	Over Temperature	Shut down o/p voltage, recovers automatically after temperature goes down.	
Function	**Remote Control**	CN1:<0~0.8VDC POWER ON , 4~10VDC POWER OFF	
Ambient	**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	
	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	**Safety Standards**	BS EN/EN62368-1	
	Withstand Voltage	I/P-O/P:3KVAC/1min I/P-FG:2KVAC/1min O/P-FG:0.5KVAC/1min	
	Isolation Resistance	I/P-O/P:100M Ohms / 500VDC / 25℃/ 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	
	EMC IMMUNITY	Compliance to BS EN/EN61000-4-11 Criteria B, BS EN/EN61000-4-2,3,4,5,6,8 Criteria A	
Others	**Packing**	540g/pcs; 38 x 20.5 x 23 cm; 20pcs/carton	
	Dimension (LxWxH)	179 x 99 x 30 mm	
	MTBF	100Khrs min. MIL-HDBK-217F(25℃)	
	Housing material	Aluminium / steel	
Note	1.All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25℃ 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 thatl 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 5000uF(Only for the models with output voltage 5/7.5/12V) 6.The ambient temperature derating of 3.5 ℃/1000m with fanless models and of 5 ℃/1000m with fan models for operating altitude higher than 2000m(6500ft).	

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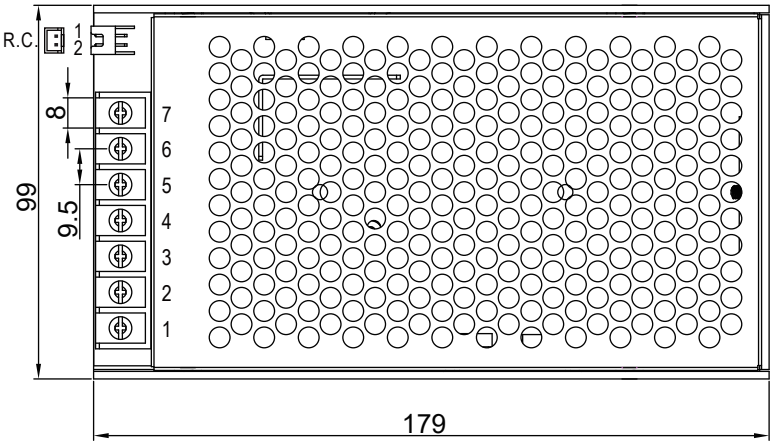
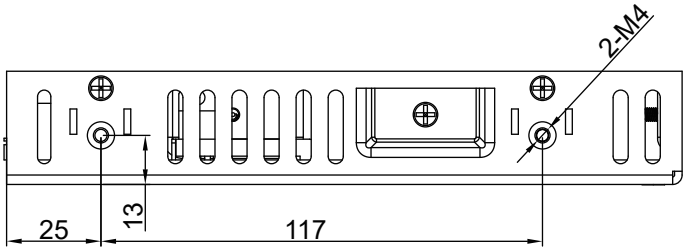
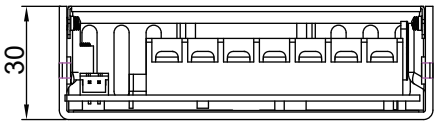
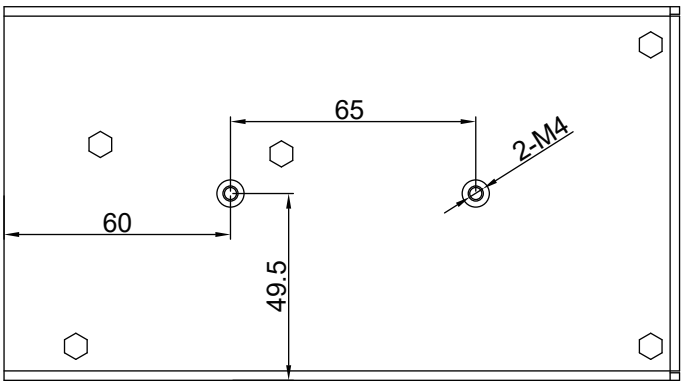
Drawing & Label

(Unit: mm , tolerance: ±1mm)









bottom view

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

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

Remote ON/OFF (CN1)	
No.	Description
1	RC+
2	RC-

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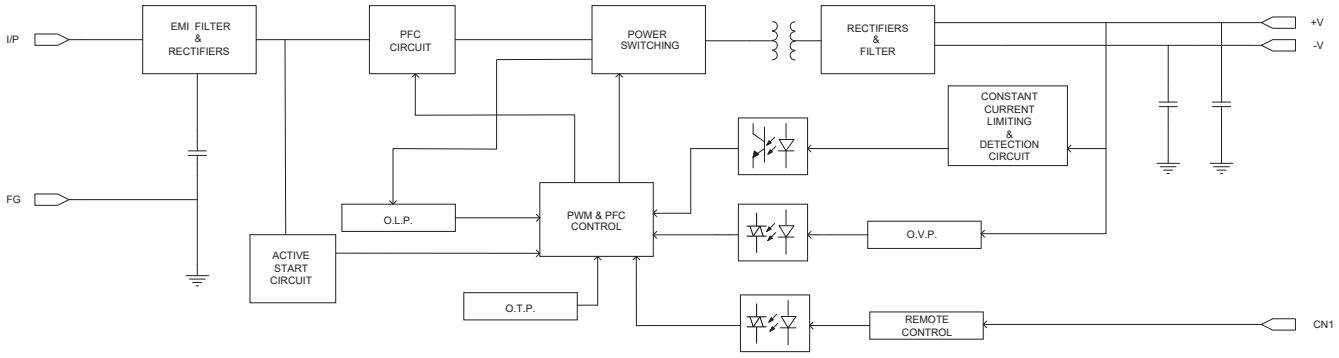
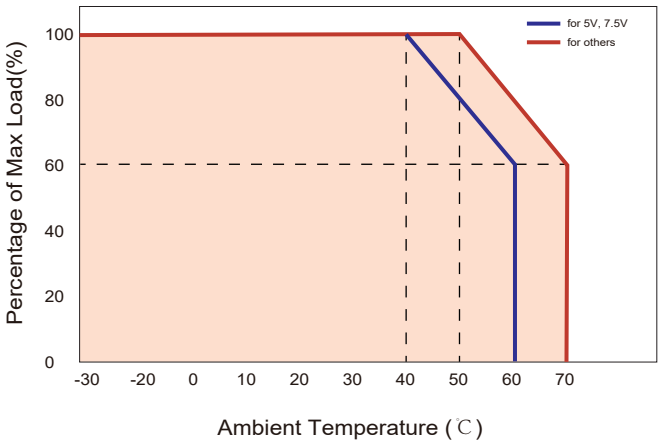
Block Diagram

PFC fosc: 67KHz
PWM fosc: 67KHz



Engineering Data

Derating Curve



Static Characteristics