

YSEP200 SERIES 200W



   RoHS

YSEP 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
YSEP200-05040000	5V	40A	200W	4.5~5.5V
YSEP200-12016700	12V	16.7A	200.4W	10~13.2V
YSEP200-15013400	15V	13.4A	201W	13.5~18V
YSEP200-24008400	24V	8.4A	201.6W	20~26.4V
YSEP200-48004200	48V	4.2A	201.6W	41~56V
YSEP200-56003600	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%	YSEP200-05040000
	84%	YSEP200-12016700
	85%	YSEP200-15013400
	87%	YSEP200-24008400
	88%	YSEP200-48004200
	88%	YSEP200-56003600
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	YSEP200-05040000
	150mVp-p	YSEP200-12016700
	150mVp-p	YSEP200-15013400
	150mVp-p	YSEP200-24008400
	240mVp-p	YSEP200-48004200
	240mVp-p	YSEP200-56003600
VOLTAGE TOLERANCE	± 5.0%	YSEP200-05040000
	± 5.0%	YSEP200-12016700
	± 5.0%	YSEP200-15013400
	± 5.0%	YSEP200-24008400
	± 5.0%	YSEP200-48004200
	± 5.0%	YSEP200-56003600
LINE REGULATION	± 1.0%	YSEP200-05040000
	± 1.0%	YSEP200-12016700
	± 1.0%	YSEP200-15013400
	± 1.0%	YSEP200-24008400
	± 1.0%	YSEP200-48004200
	± 1.0%	YSEP200-56003600
LOAD REGULATION	± 1.0%	YSEP200-05040000
	± 1.0%	YSEP200-12016700
	± 1.0%	YSEP200-15013400
	± 1.0%	YSEP200-24008400
	± 1.0%	YSEP200-48004200
	± 1.0%	YSEP200-56003600
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).

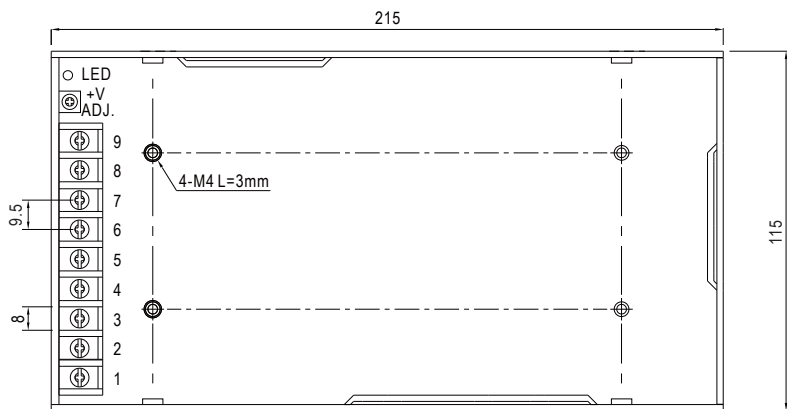
Dimensions & Weight

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

Packing

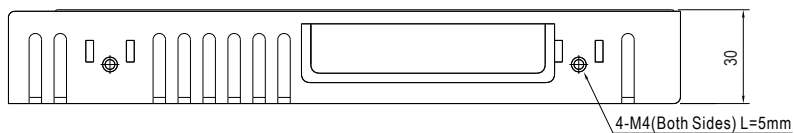
Carton Size:	38 x 19.5 x 26 CM 14.96 x 7.68 x 10.24 in
Master Carton Quantities:	15pcs / Carton

Mechanical Specification



Input :

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

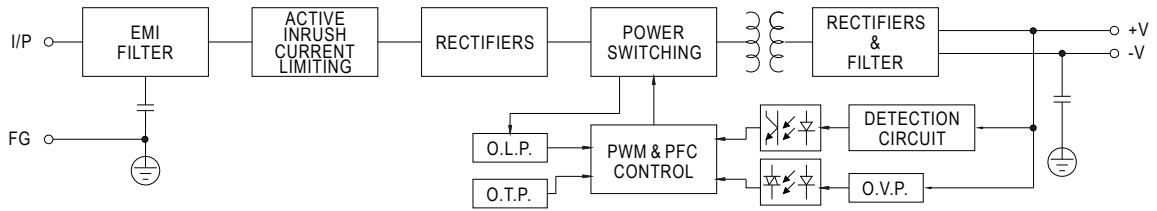


Output :

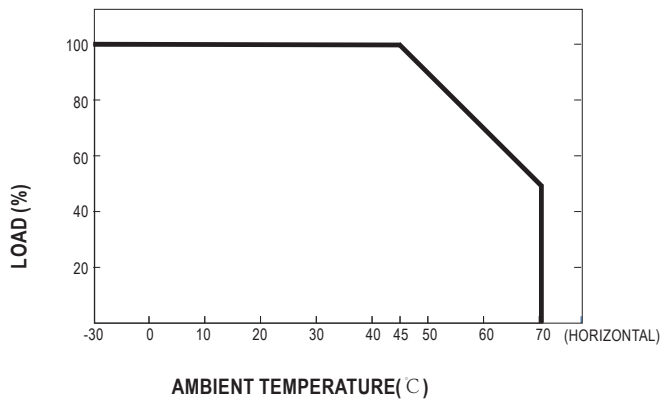
No.	Description
4-6	DC OUTPUT -V
7-9	DC OUTPUT +V

Block Diagram

PFC fosc : 100KHz
 PWM fosc : 100KHz



Derating Curve



Static Characteristics

