

# YEL350 SERIES 350W



   RoHS

YEL series are designed with lower profile housing and for wide range AC input from 90VAC to 264VAC.

The series withstand 300VAC surge input for 5 second 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/ Full Range



Forced air cooling by built-in DC fan



High operating temperature up to 70 °C



Higher Efficiency



Protection:Short Circuit/Over Current/  
Over Voltage/Over Temperature



Three Years Warranty

## Model Information

Yingjiao Part Number	DC Voltage	Rated Current	Rated Power	VOLTAGE ADJ.RANG
YEL350-12	12V	29A	348W	10.2~13.8V
YEL350-15	15V	23.2A	348W	13.5~18V
YEL350-24	24V	14.6A	350.4W	21.6~28.8V
YEL350-36	36V	9.7A	349.2W	32.4~39.6V
YEL350-48	48V	7.3A	350.4W	43.2~52.8V

## Input

VOLTAGE RANGE	90~132VAC/180~264VAC by switch 240~370VDC (switch on 230VAC)	
FREQUENCY RANGE	47-63Hz	
EFFICIENCY(Typ.)	85%	YEL350-12
	86%	YEL350-15
	88.0%	YEL350-24
	88.5%	YEL350-36
	89%	YEL350-48
AC CURRENT(Typ.)	6.8A/115VAC 3.4A/230VAC	
INRUSH CURRENT(Typ.)	COLD START 60A/115VAC COLD START 60A/230VAC	
LEAKAGE CURRENT	<2mA/240VAC	

## Output

RIPPLE & NOSE(max.)	150mVp-p	YEL350-12
	150mVp-p	YEL350-15
	150mVp-p	YEL350-24
	200mVp-p	YEL350-36
	200mVp-p	YEL350-48
VOLTAGE TOLERANCE	±1.5%	YEL350-12
	±1.0%	YEL350-15
	±1.0%	YEL350-24
	±1.0%	YEL350-36
	±1.0%	YEL350-48
LINE REGULATION	±0.5%	
LOAD REGULATION	±1.0%	YEL350-12
	±0.5%	YEL350-15
	±0.5%	YEL350-24
	±0.5%	YEL350-36
	±0.5%	YEL350-48
SETUP,RISE TIME	1300ms, 50ms/230VAC at full load	
	1300ms, 50ms/115VAC at full load	
HOLD UP TIME (Typ.)	16ms/230VAC at full load	
	12ms/115VAC at full load	

## Protection

<u>OVER LOAD</u>	110%-140% Rated Output Power
	5-36V Hiccup mode, recovers automatically after fault condition is
	48V Shut down and latch off o/p voltage, re-power on to recover.
<u>OVER VOLTAGE</u>	12V:13.8~16.2V
	15V:18~21V
	24V:28.8~33.6V
	36V:41.4~46.8V
	48V:55.2~64.8V
	5-36V Hiccup mode, recovers automatically after fault condition is
	48V Shut down and latch off o/p voltage, re-power on to recover.
<u>OVER TEMPERATURE</u>	5-36V Hiccup mode, recovers automatically after fault condition is
	48V Shut down and latch off o/p voltage, re-power on to recover.

## Environment

<u>WORKING TEMP.</u>	-30 °C to +70 °C (Refer to "Derating Curve")
<u>Working Humidity</u>	20 ~ 90% RH Non-Condensing
<u>STORAGE TEMP, HUMIDITY</u>	-40°C ~ +85°C, 10 ~ 95% RH non-condensing
<u>TEMP. COEFFICIENT</u>	± 0.03%/°C(0~50°C)
<u>VIBRATION</u>	10~ 500Hz, 5G 10min./1cycle, 60min. each along X, Y,Z axes
<u>OVER VOLTAGE CATEGORY</u>	III; According to BS EN/EN61558, BS EN/EN50178, BS EN/EN60664 BS EN/EN62477-1; altitude up to 2000 meters.
<u>MTBF</u>	2099.9K hrs min. Telcordia SR-332 (Bellcore);

## SAFETY & EMC

SAFETY STANDARDS	BS EN/EN62368-1, BS EN/EN61558-1
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 (CISPR32) Class B, BS EN/EN61000
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 is needed for operating altitude greater than 2000m(6500ft).

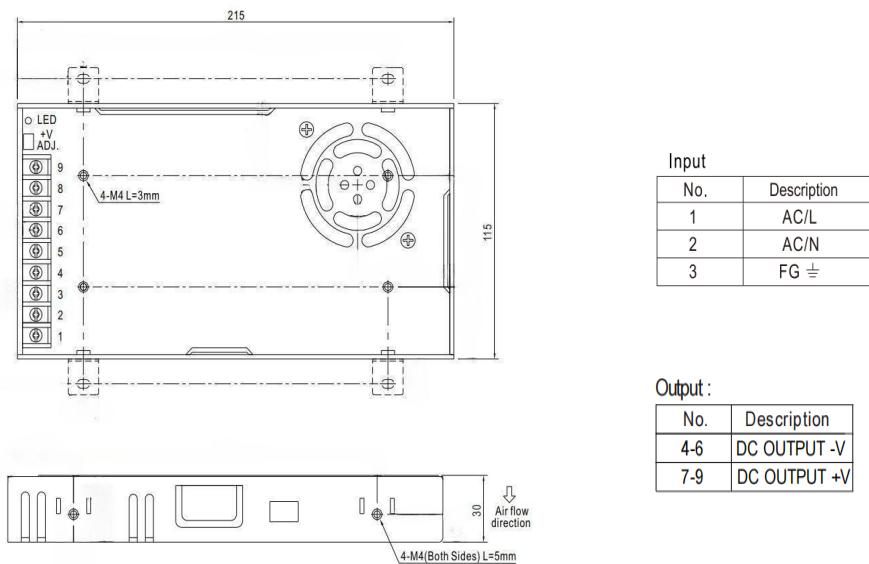
## Dimensions & Weight

Length:	215mm/8.64in
Width:	115mm/4.53in
Height:	30mm/1.18in
Weight:	660g

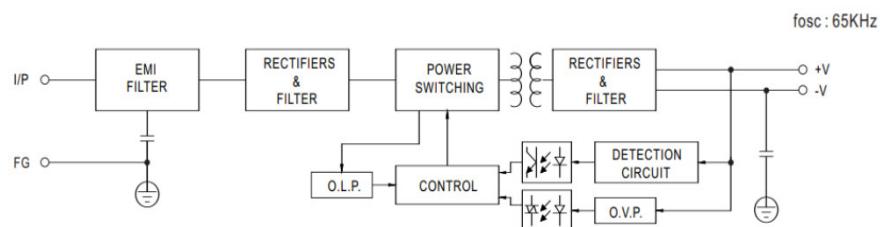
### Packing

Carton Size:	38 x 19.5 x 26 CM
	14.96 x 7.68 x10.24 in
Master Carton Quantities:	15pcs/Carton

## Dimensions and Installation

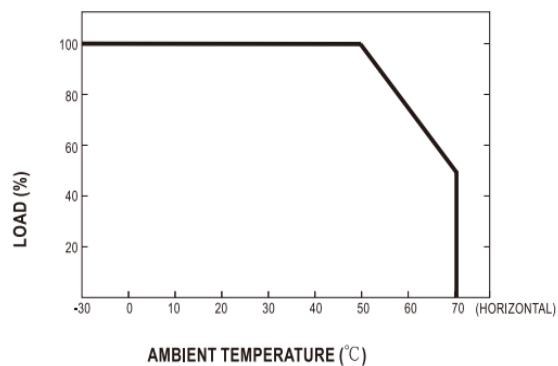


## Block Diagram



## Deduction curve and temperature

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## Minus output and input voltage curves

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