

YEL150 SERIES 150W



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.

   RoHS

Features



Universal AC Input/ Full Range



Cooling by free air convection



High operating temperature up to 70 °C



Higher Efficiency



Protection:Short Circuit/Overload/
Over Voltage



Three Years Warranty

Model Information

Yingjiao Part Number	DC Voltage	Rated Current	Rated Power	VOLTAGE ADJ.RANGE
YEL150-5	5V	22A	110W	4.5~5.5V
YEL150-12	12V	12.5A	150W	10.2~13.8V
YEL150-15	15V	10A	150W	13.5~18V
YEL150-24	24V	6.5A	156W	21.6~28.8V
YEL150-36	36V	4.3A	154.8W	32.4~39.6V
YEL150-48	48V	3.3A	158.4W	43.2~52.8V

Input

VOLTAGE RANGE	90-264VAC/127-370VDC	
FREQUENCY RANGE	47-63Hz	
EFFICIENCY(Typ.)	85%	YEL150-5
	87.5%	YEL150-12
	89.0%	YEL150-15
	89%	YEL150-24
	89%	YEL150-36
	90%	YEL150-48
AC CURRENT(Typ.)	3A/115VAC 1.7A/230VAC	
INRUSH CURRENT(Typ.)	COLD START 60A/230VAC	
LEAKAGE CURRENT	<0.75mA/240VAC	

Output

RIPPLE & NOSE(max.)	100mVp-p	YEL150-5
	150mVp-p	YEL150-12
	150mVp-p	YEL150-15
	200mVp-p	YEL150-24
	200mVp-p	YEL150-36
	200mVp-p	YEL150-48
VOLTAGE TOLERANCE	±2.0%	YEL150-5
	±1.0%	YEL150-12
	±1.0%	YEL150-15
	±1.0%	YEL150-24
	±1.0%	YEL150-36
	±1.0%	YEL150-48
LINE REGULATION	±0.5%	
LOAD REGULATION	±1.0%	YEL150-5
	±0.5%	YEL150-12
	±0.5%	YEL150-15
	±0.5%	YEL150-24
	±0.5%	YEL150-36
	±0.5%	YEL150-48
SETUP,RISE TIME	500ms, 30ms/230VAC at full load	
	500ms, 30ms/115VAC at full load	
HOLD UP TIME (Typ.)	40ms/230VAC at full load	
	35ms/115VAC at full load	

Protection

OVER LOAD	110%-140% Rated Output Power Protection type: Hiccup mode, recovers automatically after fault condition is removed
OVER VOLTAGE	5V:5.75~6.75V 12V:13.8~16.2V 15V:18.75~21.75V 24V:28.8~33.6V 36V:41.4~48.6V 48V:55.2~64.8V Protection type : Shut down o/p voltage, re-power on to recover
OVER TEMPERATURE	Shut down o/p voltage, re-power on to recover.

Environment

WORKING TEMP.	-30 °C to +70 °C (Refer to "Derating Curve")
Working Humidity	20 ~ 90% RH Non-Condensing
STORAGE TEMP, HUMIDITY	-40°C ~ +85°C, 10 ~ 95% RH non-condensing
TEMP. COEFFICIENT	± 0.03%/°C(0~50°C)
VIBRATION	10~ 500Hz, 5G 10min./1cycle, 60min. each along X, Y, Z axes
OVER VOLTAGE CATEGORY	III; According to BS EN/EN61558, BS EN/EN50178, BS EN/EN60664- BS EN/EN62477-1; altitude up to 2000 meters.
MTBF	2707.7K 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:1.25KVAC
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).

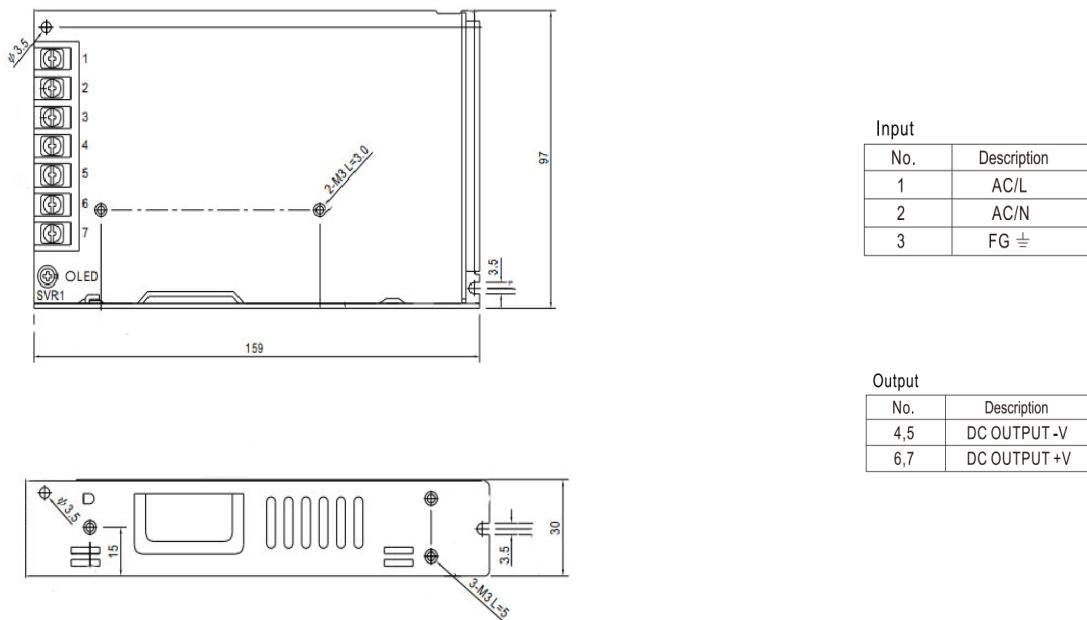
Dimensions & Weight

Length:	159mm/6.25in
Width:	97mm/3.22in
Height:	30mm/1.18n
Weight:	480g

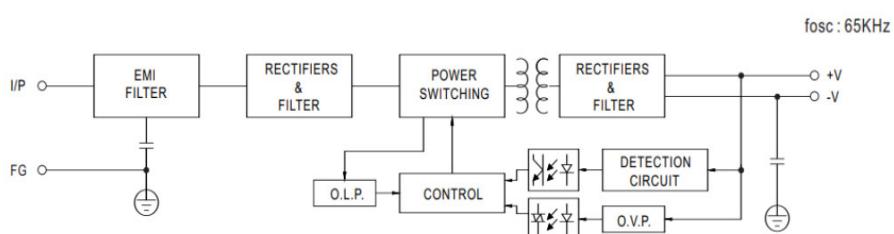
Packing

Carton Size:	36 x 31.5 x 17.5 CM
	14.17 x 12.40 x 6.89 in
Master Carton Quantities:	30pcs/Carton

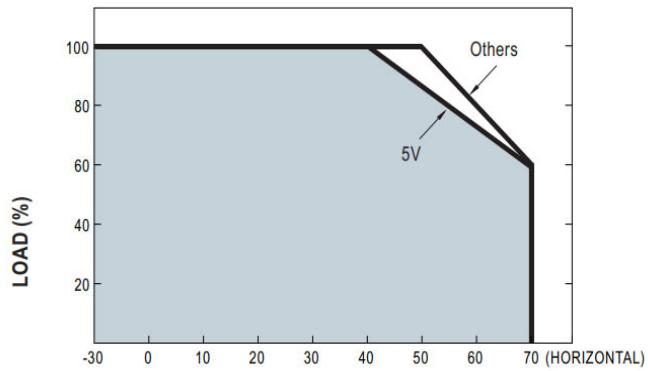
Dimensions and Installation



Block Diagram



Deduction curve and temperature



Minus output and input voltage curves

