

YEL150 SERIES 150W



YEL150 series are designed with lower profile housing and for wide range AC input from 90VAC to 264VAC.

In addition to the high efficiency, Delivering an extremely low no load power consumption. the design of metallic mesh case enhances the heat dissipation.

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



Features



Universal AC Input/ Full Range



Cooling by free air convection



High operating temperature up to 70 °C



Higher Efficiency/Low Power Dissipation



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	Max.Capacitive Load
YEL150-12	12V	12.5A	150W	10.2~13.8V	10000uF
YEL150-15	15V	10A	150W	13.5~18V	6000uF
YEL150-24	24V	6.5A	156W	21.6~28.8V	2400uF
YEL150-36	36V	4.3A	154.8W	32.4~39.6V	1200uF
YEL150-48	48V	3.3A	158.4W	43.2~52.8V	600uF

Input

RATED INPUT VOLTAGE	100-240VAC	
OPERATING VOLTAGE RANGE	90-264VAC/127-370VDC	
FREQUENCY RANGE	50/60Hz	
AVERAGE EFFICIENCY(115/230VAC)	87.5%	YEL150-12
	89%	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 & NOISE(max.)	150mVp-p	YEL150-12
	150mVp-p	YEL150-15
	200mVp-p	YEL150-24
	200mVp-p	YEL150-36
	200mVp-p	YEL150-48
VOLTAGE TOLERANCE	±1.0%	
LINE REGULATION	±0.5%	
LOAD REGULATION	±0.5%	
MINIMUM LOAD	0%	
STAND-BY POWER CONSUMPTION	0.5W	
SETUP TIME	500ms/ at full load	
RISE TIME	30ms/ at full load	
HOLD UP TIME (Typ.)	40ms/230VAC at full load	
	35ms/115VAC at full load	

Protection

SHORT CIRCUIT	Protection type: Hiccup mode, recovers automatically after fault condition is removed
OVER LOAD	110%-140% Rated Output Power Protection type: Hiccup mode, recovers automatically after fault condition is removed
OVER VOLTAGE	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	Protection type: 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)
SAFETY PROTECTION	CLASS I
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/EN60664-1,BS EN/EN62477-1; altitude up to 2000 meters
MTBF	558.2K hrs min. MIL-HDBK-217F (25°C)

SAFETY & EMC

SAFETY STANDARDS	BS EN/EN62368-1, BS EN/EN60335-1, BS EN/EN61558-1
WITHSTAND VOLTAGE	I/P-O/P:4KVAC/min, I/P-PE:2KVAC/min,O/P-PE:1.25KVAC/min
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,Class A
EMC IMMUNITY	Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11perf.CriteriaA BS EN/EN61000-6-2,perf.CriteriaB,BS EN/EN55035

Note

- 1.All parameters NOT specially mentioned are measured at 115/230VAC 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.Tolerance : includes set up tolerance, line regulation and load regulation.
 - 4.Line regulation is measured from low line to highline at rated load.
 5. Load regulation is measured from 0% to 100% rated load.
 - 6.Length of set up time is measured at cold first start. Turning ON/OFF the power supply very quickly may lead to increase of the set up time.
 - 7.The ambient temperature derating of 5°C/1000m is needed for operating altitude greater than 2000m(6500ft).
 - 8.The power supply is considered a component which will be installed into a final equipment.
- All the EMC tests are been executed bymounting the unit on a 360mm*360mm metal plate with 1mm of thickness.
The final equipment must be re-confirmed that it still meets EMC directives.
- 9.The out case needs to be connected to the earth (⊕), of system when the terminal equipment in operating.

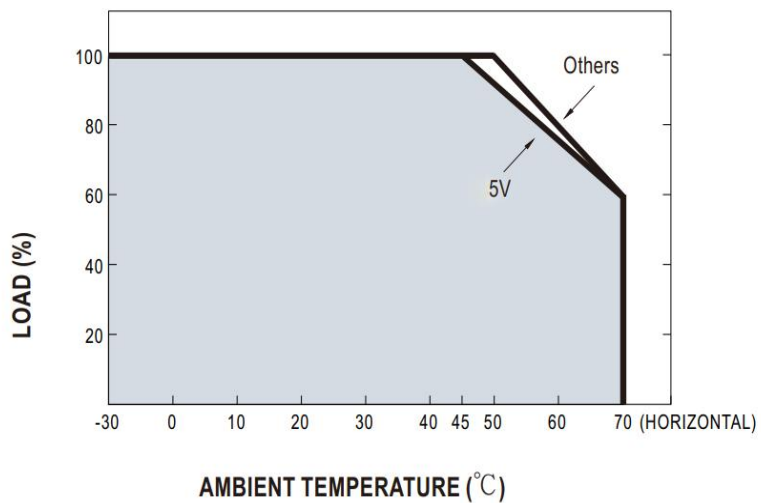
Dimensions & Weight

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

Packing

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

Deduction curve and temperature



Minus output and input voltage curves

