

YEL100 SERIES 100W



® CE KRoHS

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

The series with stand 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



Cooling by free air convection



High operating temperature up to 70 °C



Higher Efficiency/Low Power Dissipation



Protection:Short Circuit/Overload/ Over Voltage



Three Years Warranty



Model Information

Yingjiao Part Number	DC Voltage	Rated Current	Rated Power	VOLTAGE ADJ.RANG
YEL100-5	5V	18A	90W	4.5~5.5V
YEL100-12	12V	8.5A	102W	10.2~13.8V
YEL100-15	15V	7A	105W	13.5~18V
YEL100-24	24V	4.5A	108W	21.6~28.8V
YEL100-36	36V	2.8A	100.8W	32.4~39.6V
YEL100-48	48V	2.3A	110.4W	43.2~52.8V

Input

VOLTAGE RANGE	90-264VAC/127-370VDC
FREQUENCY RANGE	47-63Hz
EFFICIENCY(Typ.)	86% YEL100-5
	88% YEL100-12
	88.5% YEL100-15
	90% YEL100-24
	90.5% YEL100-36
	91.0% YEL100-48
AC CURRENT(Typ.)	1.9A/115VAC
·	1.2A/230VAC
INRUSH CURRENT(Typ.)	COLD START 50A/230VAC
LEAKAGE CURRENT	<0.75mA/240VAC



Output

RIPPLE & NOSE(max.)	100mVp-p	YEL100-5
	120mVp-p	YEL100-12
	120mVp-p	YEL100-15
	150mVp-p	YEL100-24
	200mVp-p	YEL100-36
	200mVp-p	YEL100-48
VOLTAGE TOLERANCE	±1.0%	YEL100-5
	±0.5%	YEL100-12
	±0.5%	YEL100-15
	±0.5%	YEL100-24
	±0.5%	YEL100-36
	±0.5%	YEL100-48
LINE REGULATION	±0.5%	
LOAD REGULATION	±1.0%	YEL100-5
	±0.5%	YEL100-12
	±0.5%	YEL100-15
	±0.5%	YEL100-24
	±0.5%	YEL100-36
	±0.5%	YEL100-48
SETUP,RISE TIME	500ms, 30ms/230VAC a	t full load
	500ms, 30ms/115VAC at full load	
HOLD UP TIME (Typ.)	55ms/230VAC at full load	
	10ms/115VAC at full load	1



Protection

OVER LOAD	110%-150% 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

Environment

rve")
nsing
ch along X, Y,Z axes
/EN50178, BS EN/EN60664-1,
neters.
core)



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/EN61000-3-2,-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 is needed for operating altitude greater than 2000m(6500ft).

Dimensions & Weight

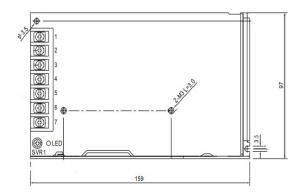
Length:	129mm/3.89in	
Width:	97mm/3.22in	
Height:	30mm/1.18n	
Weight:	340g	

Packing

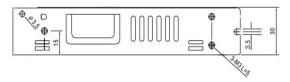
Carton Size:	36 × 31.5 x 17.5 CM
	14.17 x 12.40 x 6.89 in
Master Carton Quantities:	30pcs/Carton



Dimensions and Installation



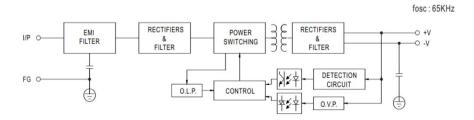
input	
No.	Description
1	AC/L
2	AC/N
3	FG ±



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

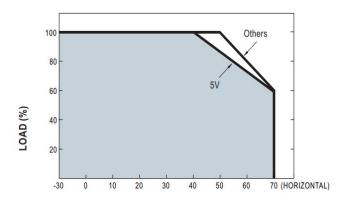
6,7

Block Diagram





Deduction curve and temperature



Minus output and input voltage curves

