

# YEL75 SERIES 75W



€ LK 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  $^{\circ}$ 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/Over Temperature



Three Years Warranty



## **Model Information**

Yingjiao Part Number	DC Voltage	Rated Current	Rated Power	VOLTAGE ADJ.RANGE
YEL75-5	5V	14A	70W	4.5~5.5V
YEL75-12	12V	6A	72W	10.2~13.8V
YEL75-15	15V	5A	75W	13.5~18V
YEL75-24	24V	3.2A	76.8W	21.6~28.8V
YEL75-36	36V	2.1A	75.6W	32.4~39.6V
YEL75-48	48V	1.6A	76.8W	43.2~52.8V

# Input

VOLTAGE RANGE	90-264VAC/127-370VDC
FREQUENCY RANGE	47-63Hz
EFFICIENCY(Typ.)	87% YEL75-5
	89% YEL75-12
	89% YEL75-15
	90% YEL75-24
	91.5% YEL75-36
	91.5% YEL75-48
AC CURRENT(Typ.)	1.4A/115VAC
·	0.85A/230VAC
INRUSH CURRENT(Typ.)	COLD START 65A/230VAC
LEAKAGE CURRENT	<0.75mA/240VAC



# Output

RIPPLE & NOSE(max.)	100mVp-p	YEL75-5	
	120mVp-p	YEL75-12	
	120mVp-p	YEL75-15	
	150mVp-p	YEL75-24	
	200mVp-p	YEL75-36	
	200mVp-p	YEL75-48	
VOLTAGE TOLERANCE	±2.0%	YEL75-5	
	±1.0%	YEL75-12	
	±1.0%	YEL75-15	
	±1.0%	YEL75-24	
	±1.0%	YEL75-36	
	±1.0%	YEL75-48	
LINE REGULATION	±0.5%		
LOAD REGULATION	±1.0%	YEL75-5	
	±0.5%	YEL75-12	
	±0.5%	YEL75-15	
	±0.5%	YEL75-24	
	±0.5%	YEL75-36	
	±0.5%	YEL75-48	
SETUP,RISE TIME	500ms, 30ms/230	VAC at full load	
	500ms, 30ms/115\	/AC at full load	
HOLD UP TIME (Typ.)	60ms/230VAC at	full load	
	12ms/115VAC at fo	ıll load	



## **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**

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/EN60664-1,
	BS EN/EN62477-1; altitude up to 2000 meters
MTBF	3334.3K 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/EN61000-3-2,-:
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

5.The ambient temperature derating of 5°C/1000m is needed for operating altitude greater than 2000m(6500ft).

## **Dimensions & Weight**

to "EMI testing of component power supplies."

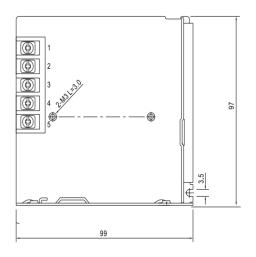
Length:	99mm/3.89in	
Width:	97mm/3.22in	
Height:	30mm/1.18n	
Weight:	250g	

#### **Packing**

Carton Size:	52 × 32.5 × 11.5 CM
	20.47 x 12.80 x 4.53 in
Master Carton Quantities:	45pcs/Carton



### **Dimensions and Installation**



# No.

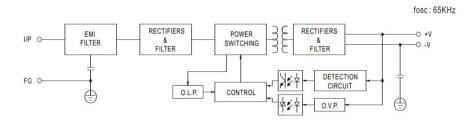
Description
AC/L
AC/N
FG ±

#### Output

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

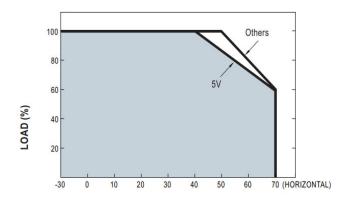


# **Block Diagram**





# **Deduction curve and temperature**



# Minus output and input voltage curves

