

# YEL75 SERIES

## 75W



YEL75 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.

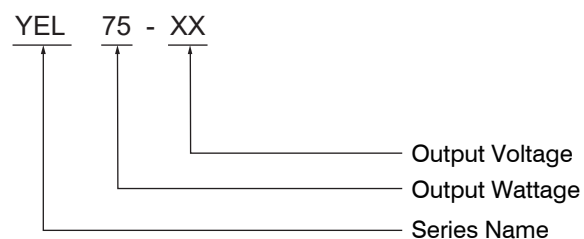
The good performance can be used for industrial automation & control systems, varied equipments etc.



### Features

- Universal AC Input/ Full Range
- High operating temperature up to 70℃
- Cooling by free air convection
- Withstand 5G vibration test
- Protections: Short circuit/Over load/Over voltage
- High efficiency, long life and high reliability
- LED indicator for power on
- Over voltage category II
- 100% full load burn-in test
- Three years warranty

### Model Description



### Model Information

Part number	DC Voltage	Rated Current(max.)	Rated Power	Efficiency	No load power consumption	Ripple & Noise	Max Capacitive Load	Voltage ADJ Range
YEL75-5	5V	14A	70W	84%	0.5W	100mVp-p	10000uF	4.6~5.5V
YEL75-12	12V	6A	72W	87%	0.5W	120mVp-p	6000uF	10.8~13.8V
YEL75-15	15V	5A	75W	85%	0.5W	120mVp-p	5000uF	13.5~17.8V
YEL75-24	24V	3.2A	76.8W	87%	0.5W	150mVp-p	1500uF	21.6~28.8V
YEL75-36	36V	2.1A	75.6W	89%	0.5W	200mVp-p	1000uF	32.4~39.6V
YEL75-48	48V	1.6A	76.8W	89%	0.5W	200mVp-p	680uF	43.2~52.8V

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### Specification

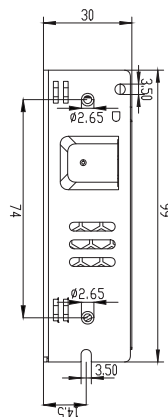
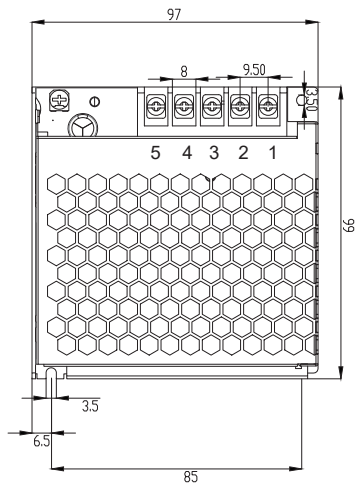
Model	Safety Model No.	YEL75-XX			
Output	Setup,Rise,Hold up Time	0.8s,35ms,60ms/230VAC(at full load)		1.0s,35ms,12ms/115VAC(at full load)	
	Voltage Tolerance	± 2.0% YEL75-5/15		± 1.0% YEL75-12/24/36/48	
	Line Regulation	± 0.5%			
	Load Regulation	± 2.0% YEL75-5		± 1.0% YEL75-12/15/24/36/48	
Input	Rated Voltage Range	100-240VAC			
	Voltage Range	90-264VAC/127-370VDC			
	Frequency Range	50/60Hz			
	AC Current	1.6A/115VAC		0.85A/230VAC	
	Inrush Current	Cold Start 75A/500us at 230VAC 50Hz		Cold Start 40A/500us at 115VAC 50Hz	
	Leakage Current	<1.5mA/240VAC			
Protection	Over Load	110~160%Rated Output Power			
		Rated load, the load can be automatically restored after abnormal conditions are removed.			
	Short Circuit	Hiccup mode, recovers automatically after fault condition is removed.			
	Over Voltage	115~135% YEL75-5/24/36/48	115~140% YEL75-12	115~175% YEL75-15	
		Shut down o/p voltage, re-power on to recover.			
Ambient	Working TEMP.	-30 ~ +70 ℃ (Please refer to “Derating Curve”section)			
	Working Humidity	20 ~ 95%RH Non-condensing			
	Storage TEMP. Humidity	-40 ~ +85 ℃,10 ~ 95%RH Non-condensing			
	TEMP. Coefficient	± 0.03%/(0 ~ 50 ℃ ) on load output			
	Vibration	Component: 10 ~ 500Hz, 5G 10min./1cycle, 60min. each along X, Y, Z axes			
	Safety Protection	Class I			
	Over Voltage Category	OVC II / According to BS EN/EN61558, BS EN/EN50178,BS EN/EN60664-1,BS EN/EN62477-1;altitude up to 2000 meters			
Safety	Safety Standards	UL62368-1, EN62368-1 approved , design to meet :BS EN62368-1,EN60335-1, EN61558-1			
	Withstand Voltage	I/P-O/P:3KVAC/1min I/P-FG:2KVAC/1min O/P-FG:0.5KVAC/1min			
	Isolation Resistance	I/P-O/P:100M Ohms / 500VDC / 25 ℃ / 70% RH			
EMC	EMC EMISSION	Compliance to BS EN/EN55032 (CISPR32) Class B,BS EN/EN55035 BS EN/EN61000-3-2, BS EN/EN61000-3-3			
	EMC IMMUNITY	Compliance to BS EN/EN61000-4-11 Criteria B, BS EN/EN61000-4-2,3,4,5,6,8 Criteria A			
Others	Packing	227g/pcs; 37 x 26 x 22.5 cm; 40pcs/carton			
	Dimension (LxWxH)	99 x 97 x 30 mm			
	MTBF <sup>*</sup>	295.5Khrs min. MIL-HDBK-217F(25 ℃ )			
	Housing material	Aluminium / steel			
Note	1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25 ℃ 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. The power supply is considered a component which will be installed into a final equipment. All the EMC tests are been executed by mounting the unit on a 360mm*360mm metal plate with 1mm of thickness. The final equipment must be re-confirmed that it stil meets EMC directives. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies". (as available on <a href="https://yingjiao.com/wp-content/uploads/2025/06/EMI_Testing_of_Component_Power_Supplies_Yingjiao.pdf">https://yingjiao.com/wp-content/uploads/2025/06/EMI_Testing_of_Component_Power_Supplies_Yingjiao.pdf</a> ) 4. 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. 5. The ambient temperature derating of 3.5 ℃/1000m with fanless models and of 5 ℃/1000m with fan models for operating altitude higher than 2000m(6500ft). 6. MTBF of YEL75: 180khrs min.				

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### Drawing & Label

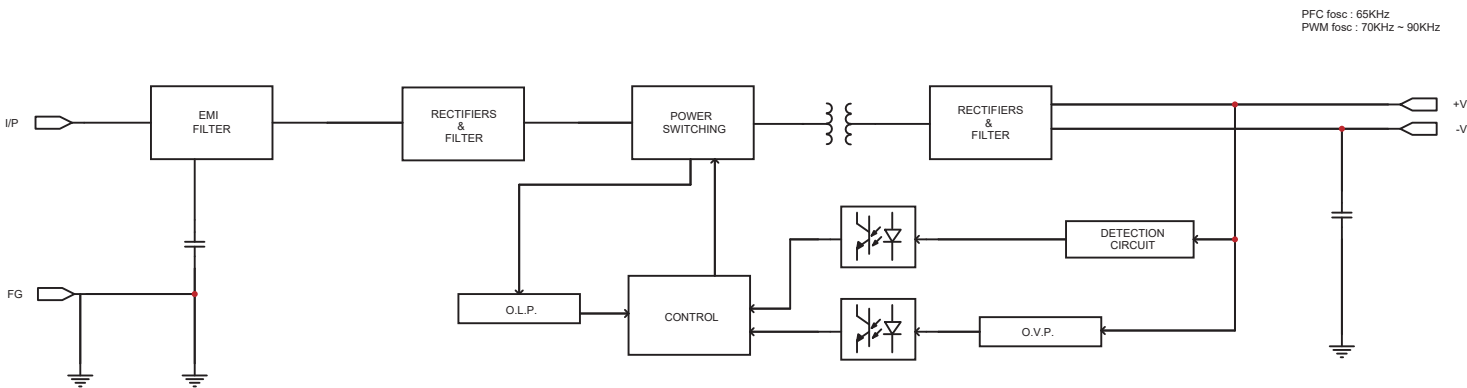
(Unit: mm , tolerance:  $\pm 1\text{mm}$ )



Terminal Pin No. Assignment

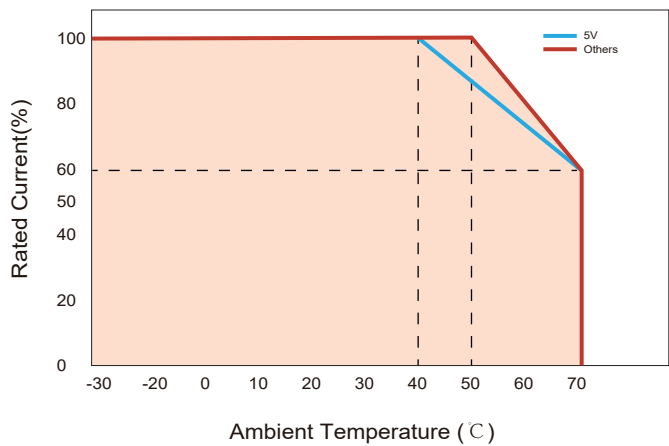
Pin No.	Assignment
1	AC/L
2	AC/N
3	FG
4	DC OUTPUT -V
5	DC OUTPUT +V

### Block Diagram

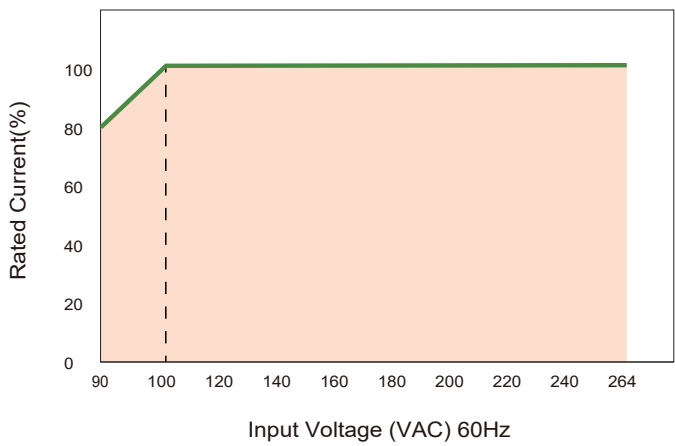


### Engineering Data

#### Derating Curve



#### Static Characteristics



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