

# **Features**

- Input Voltage 90~264V AC
- Cooling by free air convection
- Efficiency up to 89%
- Protection: OLP, OVP, SCP
- Years Warranty



## 56YEL75-xx-RS AC-DC PSU Series

75W Enclosed AC/DC Power Supply (PSU)



CA CC GODPLART

The 56YEL75-xx-RS Series is a consistent and high-performing 75W Enclosed AC/DC Power Supply. Designed for use in applications such as embedded electronics and control equipment. This series is supplied with a Screw Terminal Block input connection and supports input voltages of 90~264V AC 47~63Hz.

Models						
Model	Voltage (V)	Rated	Rated	%	Voltage	Ripple and
	DC	Current	Power	Efficiency	range	Noise mVp-
56YEL75-05-RS	5	14	70	84	4.6~5.5	100
56YEL75-12-RS	12	6	72	87	10.8~13.8	120
56YEL75-15-RS	15	5	75	85	13.5~17.8	120
56YEL75-24-RS	24	3.2	76.8	87	21.6~28.8	150
56YEL75-36-RS	36	2.1	75.6	89	32.4~39.6	200
56YEL75-48-RS	48	1.6	76.8	89	43.2~52.8	200





Input Specifications		
Input Voltage	90-264VAC/127-370VDC	
Frequency Range	47-63Hz	
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	

Output Specifications			
V II	±2.0%	5v	
Voltage Tolerance	±1.0%	Others	
Line Regulation	±0.5%		
Load Regulation	±2.0%	5v	
	±1.0%	Others	
Set up Rise Time Hold up	0.8s,35ms,60ms/230VAC(at full load)		1.0s,35ms,12ms/115VAC(at full load)

Protection	
	110%-160% Rated Output Power
Over Load	Hiccup mode, recovers automatically after fault condition is removed.
Over Voltage	115~140%Rated Output Voltage (56YEL75-15: 115~175%)
	Shut down o/p voltage, re-power on to recover.
Short Circuit	Hiccup mode, recovers automatically after fault condition is removed

Environmental Characte	eristics
Working Temp	-30~+70°C (Refer to "Derating Curve")
Working Humidity	20~95% RH non-condensing
Storage Temp., Humidity	-40~+85°C, 10~95% RH non-condensing
Temp. Coefficient	±0.03%/°C (0~50°C)
Vibration	Component: 10 ~ 500Hz, 5G 10min./1cycle, 60min. each along X, Y, Z axes
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
MTBF	295.5Khrs min. MIL-HDBK-217F(25°C)
Safety Protection	Class I

Safety & EMC	
Safety Standards	UL62368-1, EN62368-1
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°C/ 70% RH
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



#### Notes:

- 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).

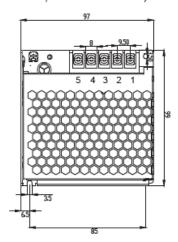
Dimensions & Wei	ht	
Size	99 x 97 x 30 mm	
Weight	227g/pcs	

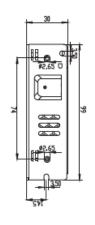
Packaging	
Carton Size	37 x 26 x 22.5 cm
Master Carton Quantities	40pcs/carton

### Dimensions and Recommended Layout

### Drawing & Label

(Unit: mm, tolerance: ±1mm)





 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

### **Block Diagram**

