

# **Features**

- Input Voltage 90~264V AC or 127~370V DC
- Cooling by free air convection
- Efficiency up to 89%
- Protection: OLP, OVP, SCP
- 3 Years Warranty



Ideal Power's 56YEL50-xy 35W & 50W Enclosed AC/DC Power Supply (PSU) Series complies with the relevant Efficiency Regulations. These are primarily used in ITE, Audio & Video Industries and customised solutions are available upon request.

35W Models						
Model Number	DC Voltage (V)	Rated Current (A)	Rated Power (W)	Efficiency (%)	Voltage Adj. Range (V)	Ripple & Noise (mVp-p)
56YEL35-5	5	7	35	83	4.5~5.5	80
56YEL35-12	12	3	36	86	10.2~13.8	120
56YEL35-15	15	2.4	36	88	13.5~18	120
56YEL35-24	24	1.5	36	88	21.6~28.8	150
56YEL35-36	36	1	36	89	32.4~39.6	200
56YEL35-48	48	0.8	38.4	90	43.2~52.8	200

Input Specifications		
Input Voltage	90-264VAC/127-370VDC	
Frequency Range	47-63Hz	
AC Current	0.95A/115V - 0.56A/230V	
Inrush Current	Cold Start 45A at 230V AC	
Leakage Current	< 0.75mA/240V AC	
Connection	I/P: 3 poles terminal Block	



#### **Output Specifications** ±2.0% 5ν Voltage Tolerance ±1.0% Others ±0.5% Line Regulation ±1.0% 5ν Load Regulation ±0.5% Others 1000ms, 30ms/230VAC at full load Set up 2000ms, 30ms/115VAC at full load Rise Time 30ms/230VAC at full load - 12ms/115VAC at full load Hold up Time O/P: 2 poles terminal Block Connection

0 1	110%-150% Rated	d Output Power	
Over Load	Protection type: Hiccup mode, recovers automatically after fault condition is removed.		
	5.75~ 6.75V	5v	
Over Voltage	13.8 ~ 16.2V	12v	
	18.75~21.75V	15v	
	28.8~33.6V	24v	
	41.4~48.6V	36v	
	55.2~64.8V	48v	
	Protection type: SI	nut down o/p voltage, re-power on to recover.	

Environmental Charac	teristics
Working Temp	-30~+70°C (Refer to "Derating Curve")
Working Humidity	20~90% RH non-condensing
Storage Temp., Humidity	-40~+85°C, 10~95% RH non-condensing
Temp. Coefficient	±0.03%/°C (0~50°C)
Vibration	10 ~ 500Hz, 5G 10min. /1cycle, period for 60min. each along X, Y,Z axes
Over Voltage Category	III; According to BS EN/EN61558, BS EN/EN50178, BS EN/EN60664 BS EN/EN62477-1; altitude up to 2000 meters
MTBF	600K 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 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



#### 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).

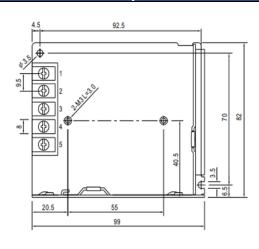
### Dimensions & Weight

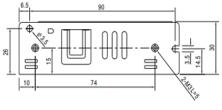
Size	99x82x30mm / 3.89x3.22x1.18in	
Weight	230g	

### **Packaging**

Carton Size	36x32.5x18.5cm / 14.17x12.80x7.28in
Master Carton Quantities	60pcs/Carton

## **Dimensions and Recommended Layout**





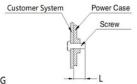
#### Input

No.	Description
1	AC/L
2	AC/N
3	FG ÷

### Output

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

Screw Spec.	L(max)	Torque(max)
M3	5mm	0.4N·m
M3	3mm	0.4N·m



Note: Unit: mm[inch] Wire range: 22-12AWG

Connector tightening torque: M3.5 , 0.8N·m General tolerances: ±1.00[±0.039]



