

Features

- Input Voltage 90~264V AC or 127~370V DC
- Cooling by free air convection
- Efficiency up to 91%
- Protection: OLP, OVP, OTP SCP
- Three Years Warranty



Ideal Power's 56YEL100-xy 100W 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.

Models						
Model Number	DC Voltage (V)	Rated Current (A)	Rated Power (W)	Efficiency (%)	Voltage Adj. Range (V)	Ripple & Noise (mVp-p)
56YEL100-05	5	18	90	86	4.5~5.5	100
56YEL100-12	12	8.5	102	88	10.2~13.8	120
56YEL100-15	15	7	105	88.5	13.5~18	120
56YEL100-24	24	4.5	108	90	21.6~28.8	150
56YEL100-36	36	2.8	100.8	90.5	32.4~39.6	200
56YEL100-48	48	2.3	110.4	91	43.2~52.8	200

Input Specifications	S
Input Voltage	90-264VAC/127 -370VDC - 50/60Hz
Frequency Range	47-63Hz
AC Current	1.9A/115V AC - 1.2A/230V AC
Inrush Current	Cold Start 50A at 230V AC
Leakage Current	< 0.75mA/240V AC
Connection	I/P: 3 poles terminal Block



Environmental Characteristics

IS .		
±1.0%	5v	
±0.5%	Others	
±0.5%		
±1.0%	5v	
±0.5%	Others	
500ms, 30ms/230VAC at full load		
500ms, 30ms	500ms, 30ms/115VAC at full load	
55ms/230VA0	55ms/230VAC at full load - 10ms/115VAC at full load	
O/P: 4 poles terminal Block		
	±1.0% ±0.5% ±0.5% ±1.0% ±0.5% 500ms, 30ms/ 500ms, 30ms/ 55ms/230VAC	

Protection		
Over Load	110%-150% Rated	d Output Power
	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	hut down o/p voltage, re-power on to recover.

Working Temp	-30~+70°C (Refer to "Derating Curve")
Working Humidity	20~90% RH non-condensing
Storage Temp., Humidity	-40~+85°℃, 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	3348.9k hrs min. Telcordia SR-332 (Bellcore)

Safety & EMC	
Safety Standards	
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."
- $5. \ The \ ambient \ temperature \ derating \ of \ 5^{\circ}\text{C}/1000\text{m} \ is \ needed \ for \ operating \ altitude \ greater \ than \ 2000m(6500ft).$



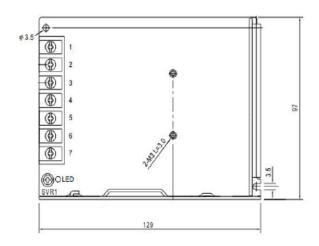
Dimensions & Weight

Size	129x97x30mm / 3.89x3.22x1.18in
Weight	340g

Packaging

Carton Size	36x31.5x17.5cm / 14.17x12.40x6.89in
Master Carton Quantities	30pcs/Carton

Dimensions and Recommended Layout



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



Output	
No.	Description
4,5	DC OUTPUT -V
6,7	DC OUTPUT+V

Block Diagram

