

Features

- Input Voltage 90~305V AC
- Built-in Active PFC Function
- Cooling by free air convection
- Approved to UKCA, CE
- Efficiency up to 90%
- Safety Approved to IEC 62368-1 BS EN/EN 62368-1
- Protection: OLP, OVP, OTP SCP
- Three Years Warranty



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Ideal Power's 56YEP75-xy 75W Enclosed AC/DC Power Supply (PSU) Series is certified to UKCA, CE & IEC 62368-1/BS EN62368-1/EN 62368-1 Standards and 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)
56YEP75-05	5	15	75	82	4.5~5.5	80
56YEP75-7.5	7.5	10	75	88		
56YEP75-12	12	6.25	75	85	11.4~13.2	120
56YEP75-13.5	13.5	5.6	75.6	88		
56YEP75-15	15	5	75	86	14.3~16.5	120
56YEP75-24	24	3.12	74.9	87	22.8~26.4	120
56YEP75.27	27	2.8	75.6	88		
56YEP75-48	48	1.25	60	89	45.6~52.8	120
56YEP75-60	60	1.25	75	88		

Input Specifications		
Input Voltage	90-305VAC/127-370VDC	
Frequency Range	47-63Hz	
Power Factor	PF>0.93/230V AC at full load / PF>0.98/115V AC at full load	
AC Current	0.9A/115V AC - 0.5A/230V AC	
Inrush Current	Cold Start 35A at 230V AC	
Leakage Current	eakage Current < 35A/230V AC	
Connection	I/P: 3 poles terminal Block	



Environmental Characteristics

Output Specification	Output Specifications		
	±2.0%	5v	
Voltage Tolerance	±1.0%	Others	
Line Regulation	±0.5%		
Load Regulation	±1.0%	5v	
Loud Hogalation	±0.5%	Others	
Set up, Rise Time	600ms, 30ms	600ms, 30ms at full load	
Hold up Time	16ms at full lo	16ms at full load	
Connection	O/P: 4 poles to	O/P: 4 poles terminal Block	

Protection			
Over Load	105%-135% Rate	d Output Power	
Over Load	Protection type: C	Constant current limiting, recovers automatically after fault condition is removed.	
	5.75~ 6.75V	5v	
	13.2~16.2V	12v	
0 1/ 1/	16.5~20.25V	15v	
Over Voltage	26.4~32.4	24v	
	52.8~64.8V	48v	
	Protection type: S	hut down o/p voltage, re-power on to recover.	
Over Temperature	Shut down o/p voltage, recovers automatically after temperature comes down		

Working Temp	-25~+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	±0.05%/°C (0~50°C)
Vibration	10 ~ 500Hz, 2G 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	1845.8K hrs min. Telcordia SR-332 (Bellcore)

Safety & EMC	
Safety Standards	BS EN/EN 62368-1, BS EN/EN 61558-1
Withstand Voltage	I/P-O/P:4KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC
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 (C1SPR32) 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

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mote Control CN: <0~0.8V DC Power on, 4~10V DC Power of



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).

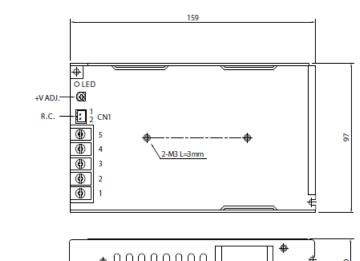
Dimensions &	Weight

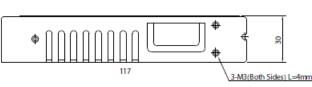
Size	159x97x30mm / 6.26x3.82x1.18in
Weight	440g

Packaging

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

Dimensions and Recommended Layout





Output

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

Input

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

Remote ON/OFF(CN): JST S2B-XH or equivalent(optional)

No.	Description	Mating Housing	Terminal
1	RC+	JST XHP	JST S XH-001T-P0.6
2	RC-	or equivalent	or equivalent

