

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)
56YEL50-05-35W	5	7	35	83	4.5~5.5	80
56YEL50-12-35W	12	3	36	86	10.2~13.8	120
56YEL50-15-35W	15	2.4	36	86	13.5~18	120
56YEL50-24-35W	24	1.5	36	88	21.6~28.8	150
56YEL50-36-35W	36	1	36	88	32.4~39.6	200
56YEL50-48-35W	48	0.8	38.4	89	43.2~52.8	200

50W Models						
Model Number	DC Voltage (V)	Rated Current (A)	Rated Power (W)	Efficiency (%)	Voltage Adj. Range (V)	Ripple & Noise (mVp-p)
56YEL50-05-50W	5	10	50	83	4.5~5.5	80
56YEL50-12-50W	12	4.2	50.4	86	10.2~13.8	120
56YEL50-15-50W	15	3.4	51	88	13.5~18	120
56YEL50-24-50W	24	2.2	52.8	88	21.6~28.8	150
56YEL50-36-50W	36	1.45	52.2	89	32.4~39.6	200
56YEL50-48-50W	48	1.1	52.8	90	43.2~52.8	200

Protection



input Specification	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 Specificatio	ns		
Voltage Tolerance	±2.0%	5v	
Voltage Tolerance	±1.0%	Others	-
Line Regulation	±0.5%		
Load Regulation	±1.0%	5v	
	±0.5%	Others	
Set up	1000ms, 30ms/230VAC at full load		
Rise Time	2000ms, 30ms/115VAC at full load		
Hold up Time	30ms/230VAC at full load - 12ms/115VAC at full load		
Connection	O/P: 2 poles terminal Block		

0 1 1	110%-150% Rated	d Output Power
Over Load	Protection type: Hi	iccup mode, recovers automatically after fault condition is removed.
	5.75~ 6.75V	5v
	13.8 ~ 16.2V	12v
	18.75~21.75V	15v
Over Voltage	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.

Environmental Charact	eristics			
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	3201.5K hrs min. Telcordia SR-332 (Bellcore) 35W models			
	3149.8K hrs min. Telcordia SR-332 (Bellcore) 50W models			



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

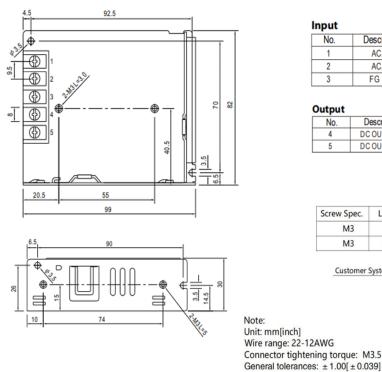
Notes:

- 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°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





input			
No.	Description		
1	AC/L		
2	AC/N		
3	FG ≟		

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

Screw Spec.

- 1	M3	3mm	0.4N·m
Cu	stomer :	System	Power Case
		No.	Screw
		Car.	1
AWG			

L(max)

5mm

Torque(max)

0.4N·m

Note: Unit: mm[inch] Wire range: 22-12 Connector tightening torque: M3.5, 0.8N·m



