

## **Features**

- Input Voltage 85~305V AC
- Cooling by free air convection
- Efficiency up to 88%
- Protection: OLP, OVP, SCP
- 3 Years Warranty



## 56YEP500-x AC-DC PSU Series

500W Enclosed AC/DC Power Supply



The 56YEP500-x Series is a high-quality and reliable 500W Enclosed AC/DC Power Supply. Designed for use in applications such as commercial, industrial and OEM electronics. This series is supplied with a Screw Terminal Block input connection and supports input voltages of 85~305V AC 47~63Hz.

Models						
Model	Voltage (V)	Rated	Rated	%	Voltage	Ripple and
	DC	Current	Power	Efficiency	range	Noise mVp-
56YEP500-5	5	90	450	84	4.5~5.5	150
56YEP500-12	12	41.7	500.4	88	10~13.2	150
56YEP500-15	15	33.4	501	88	13.5~18	150
56YEP500-24	24	21	504	89	20~26.4	150
56YEP500-27	27	18.6	502	89.5	26~30	150
56YEP500-36	36	14	504	90	32.4~39.6	180
56YEP500-48	48	10.5	504	90.5	41~56	240
56YEP500-60	60	8.4	504	91.5	56~64	300



Input Specifications			
Input Voltage	85-305VAC		
Frequency Range	47-63Hz		
AC Current	5.9A/115VAC	2.85A/230VAC	
Inrush Current	Cold Start 40A/20	Ous at 230VAC 50Hz	Cold Start 20A/200us at 115VAC 50Hz
Leakage Current	<2mA/240VAC		

Output Specifications				
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Voltage Tolerance	+2.0% 5v	+ 1.0% Othe	ers	
Line Regulation	±0.5% 5v	+0.3% 12/15	v +0.2% others	
Load Regulation	+1.0% 5v	+0.5% Othe	ers	
Set up Rise Time Hold up	1.5s,80ms,18ms/230V	AC(at full load) 3.	0s,80ms,14ms/115VAC(at full load)3	

Protection		
Over Load	105~130%Rated Output Power	
	Constant current limiting recovers automatically after fault condition is removed	
Over Voltage	115~135%Rated Output Voltage	
	Shut down o/p voltage, re-power on to recover.	
Short Circuit	Hiccup mode, recovers automatically after fault condition is removed.	
Over Temperature	Shut down o/p voltage, recovers automatically after temperature goes down.	

Environmental Characte	eristics
Working Temp	-30 ~ +70°C(Please refer to "Derating Curve"section)
Working Humidity	20 ~ 95%RH Non-condensing
Storage Temp., Humidity	-40~+85°C, 10~95% RH non-condensing
Temp. Coefficient	±0.03%/(0 ~ 50°C) on load output
Vibration	Component: 10 ~ 500Hz, 5G 10min./1cycle, 60min. each along X, Y, Z axes
Over Voltage Category	OVC II / According to EN62368-1;altitude up to 2000 metersup to 2000 meters
MTBF	176.8Khrs min. MIL-HDBK-217F(25°C)
Safety Protection	Class I

Safety & EMC	
Safety Standards	BS EN/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/EN61000-3-2 Class A,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  $^{\circ}$ 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	230 x 127 x 40.5 mm
Weight	1.3kg/pcs

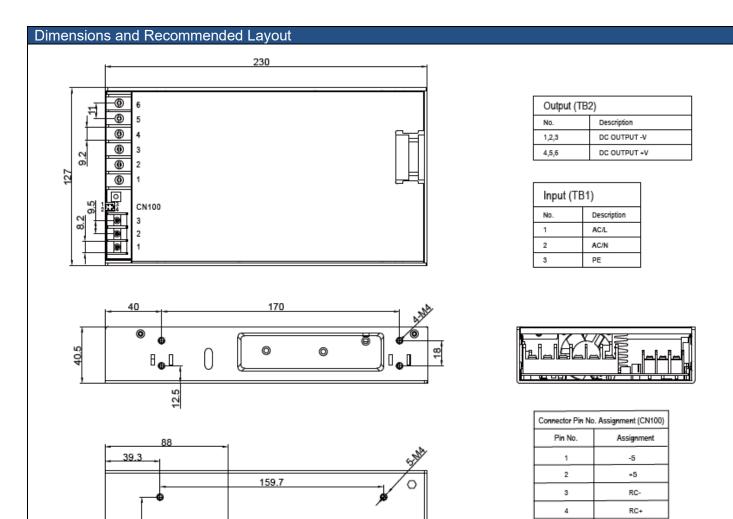
Packaging	
Carton Size	54 x 30 x 24 cm
Master Carton Quantities	9pcs/carton

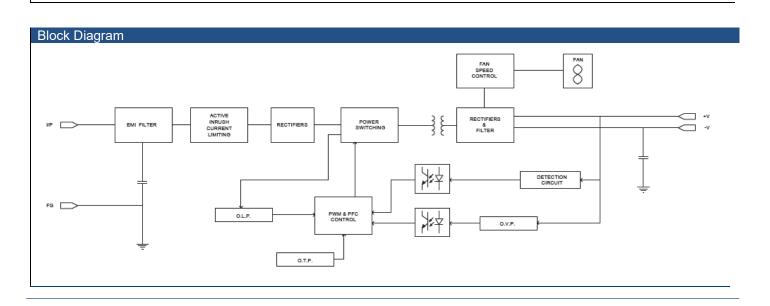


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