Features

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

56YEP75-xx-RS AC-DC PSU Series

75W Enclosed AC/DC Power Supply (PSU)

The 56YEP75-xx-RS Series is a durable and consistent 75W Enclosed AC/DC Power Supply. Designed for use in applications such as computing platforms and communications equipment. 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) DC	Rated Current	Rated Power	% Efficiency	Voltage range	Ripple and Noise mVp-
56YEP75-05-RS	5	15	75	82	4.75~5.5	80
56YEP75-12-RS	12	6.3	75.6	85	11.4~13.2	120
56YEP75-15-RS	15	5	75	85.5	14.3~16.5	120
56YEP75-24-RS	24	3.2	76.8	85	22.8~26.4	120
56YEP75-48-RS	48	1.6	75.8	87	45.6~52.8	200

Input Specifications

Input Voltage	85-305VAC	
Frequency Range	47-63Hz	
AC Current	1.0A/115VAC	0.5A/230VAC
Inrush Current	Cold Start 35A/600us at 230VAC 50Hz	Cold Start 20A/600us at 115VAC 50Hz
Leakage Current	<2mA/240VAC	

Output Specifications

Voltage Tolerance	+2.0% 5v	+1.0% Others
Line Regulation	±0.5%	
Load Regulation	+1.0% 5v	+0.5% Others
Set up Rise Time Hold up	0.6s,30ms,16ms/230VAC(at full load)	0.6s,30ms,16ms/115VAC(at full load)

Protection

Over Load	105~135%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 Characteristics

Working Temp	-25 ~ +70℃(Please refer to “Derating Curve”section)
Working Humidity	20 ~ 90% RH Non-condensing
Storage Temp., Humidity	-40~+85℃, 10~95% RH non-condensing
Temp. Coefficient	±0.05%/(0 ~ 50℃) on load output
Vibration	Component: 10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes
Over Voltage Category	OVC II / According to EN62368-1;altitude up to 2000 meters
MTBF	296.1Khrs min. MIL-HDBK-217F(25℃)
Safety Protection	Class I
Function	Remote control: CN1:<0~0.8VDC POWER ON , 4~10VDC POWER OFF

Safety & EMC

Safety Standards	BS/EN62368-1, IEC 62368-1
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℃/ 70% RH
EMC Emission	Compliance to BS EN/EN55032 (CISPR32) Class B, BS EN/EN61000-3-2 Class A-D,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℃ 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 ℃ 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℃/1000m is needed for operating altitude greater than 2000m(6500ft).

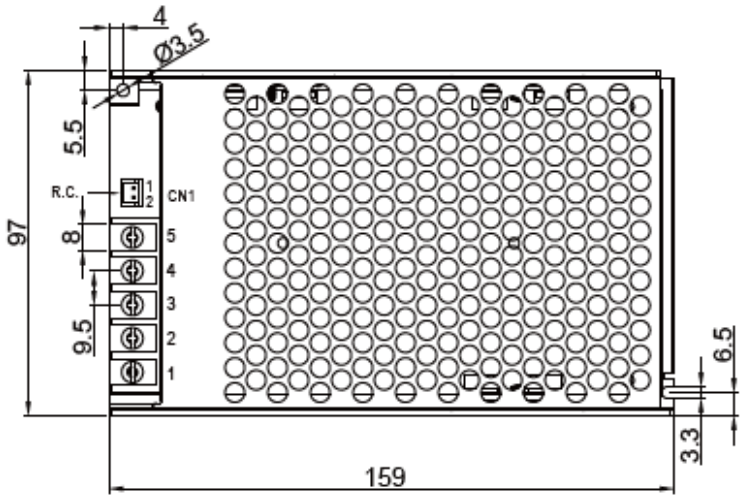
Dimensions & Weight

Size	159 x 97 x 30 mm
Weight	440g/pcs

Packaging

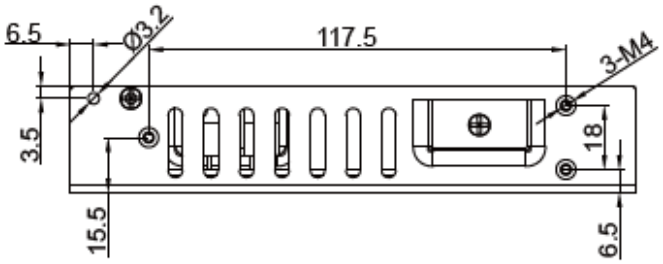
Carton Size	36 x 31.5 x 17.5 cm
Master Carton Quantities	30pcs/carton

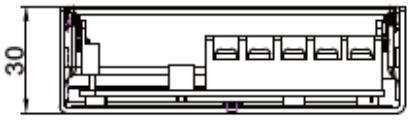
Dimensions and Recommended Layout



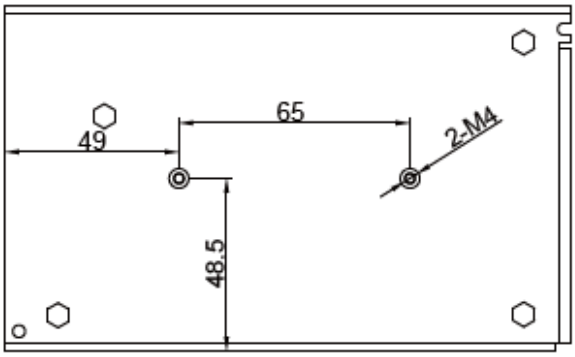
Output	
No.	Description
4,5	DC OUTPUT -V
6,7	DC OUTPUT +V

Input	
No.	Description
1	AC/L
2	AC/N
3	PE



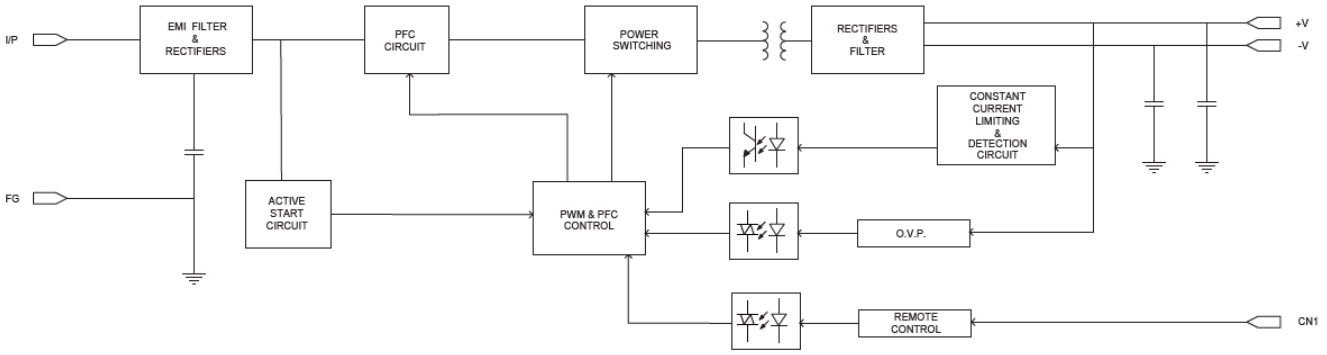


Remote ON/OFF (CN1)	
No.	Description
1	RC+
2	RC-



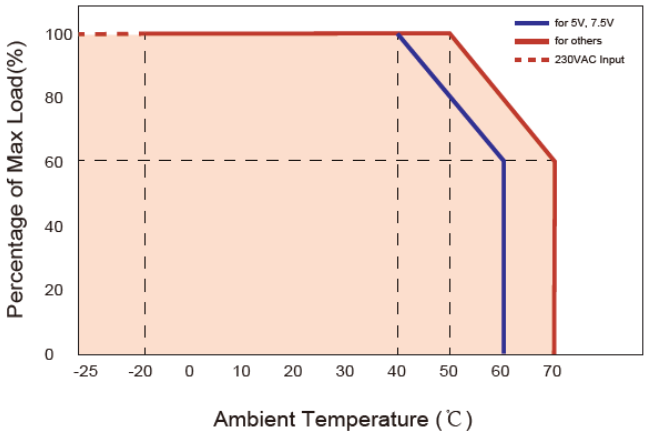
bottom view

Block Diagram



Derating Curve

Derating Curve



Static Characteristics