

Features

- Input Voltage 85~305V AC
- Cooling by free air convection
- Efficiency up to 89.5%
- Efficiency up to 88%
- 3 Years Warranty



56YEP200-xx-RS AC-DC PSU Series

200W Enclosed AC/DC Power Supply (PSU)



The 56YEP200-xx-RS Series is a high-performance 200W Enclosed AC/DC Power Supply. Designed for use in applications such as digital signage, displays and user interfaces. 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-
56YEP200-05-RS	5	40	200	85	4.5~5.5	150
56YEP200-12-RS	12	16.7	200.4	88	10~13.2	150
56YEP200-15-RS	15	13.4	201	89	13.5~18	150
56YEP200-24-RS	24	8.4	201.6	88.5	20~26.4	150
56YEP200-36-RS	36	5.56	201.16	88.5	32.4~39.6	220
56YEP200-48-RS	48	4.2	201.6	89	41~56	240

Input Specifications		
Input Voltage	85-305VAC	
Frequency Range	47-63Hz	
AC Current	2.5A/115VAC	1.3A/230VAC
Inrush Current	Cold Start 60A/1200us at 230VAC 50Hz	Cold Start 30A/1000us at 115VAC 50Hz
Leakage Current	<1.5mA/240VAC	
Power Factor	>0.95/230VAC at full load	>0.98/115VAC at full load

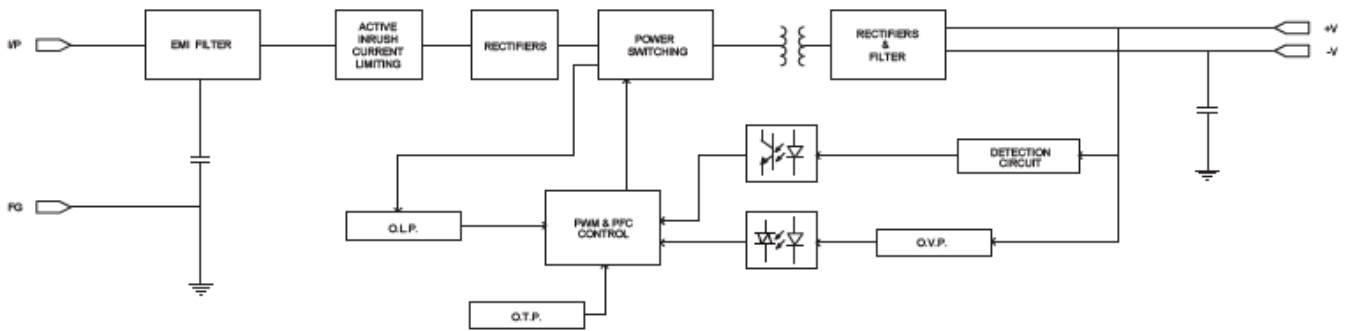
Output Specifications		
Voltage Tolerance	±2.0%	5v
	±1.0%	Others
Line Regulation	±0.5%	
Load Regulation	±1.5%	5v
	±1.0%	Others
Set up Rise Time Hold up	0.5s,30ms,55ms/230VAC(at full load)	0.5s,30ms,10ms/115VAC(at full load)

Protection	
Over Load	105~135%Rated Output Power
	Hiccup mode, recovers automatically after fault condition is removed.
Over Voltage	115~140%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	-30~+70°C (Refer to "Derating Curve")
Working Humidity	20~95% RH non-condensing
Storage Temp., Humidity	-40~+85°C, 10~95% RH non-condensing
Temp. Coefficient	±0.03%/°C (0~50°C)
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 meters
MTBF	256.5Khrs min. MIL-HDBK-217F(25°C)
Safety Protection	Class I

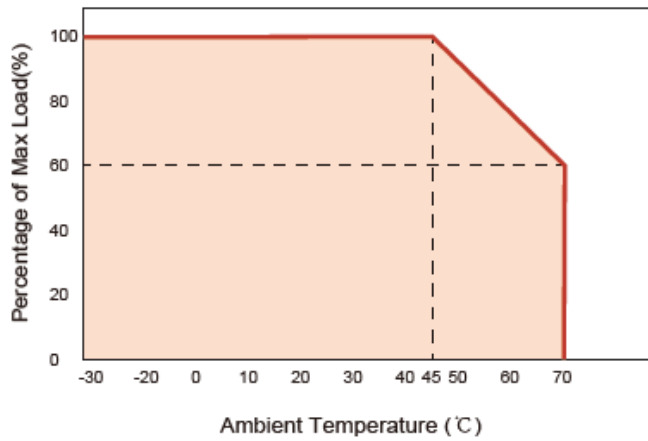
Safety & EMC	
Safety Standards	BS/EN62368-1
Withstand Voltage	I/P-O/P:3KVAC/1min I/P-FG:2KVAC/1min O/P-FG:0.5KVAC/1min
Isolation Resistance	I/P-O/P:100M Ohms / 500VDC / 25°C/ 70% RH
EMC Emission	Compliance to BS EN/EN55032 (CISPR32) Class B, BS EN/EN61000-3-2 Class A,BS EN/EN61000-3-3
EMC Immunity	Compliance to BS EN/EN61000-4-11 Criteria B, BS EN/EN61000-4-2,3,4,5,6,8 Criteria A

Block Diagram



Derating Curve

Derating Curve



Static Characteristics

