

Features

- Universal Input 100-277V AC
- Approved to UKCA, CE, RoHS
- EN62368-1 Safety Approved
- 82.5% Efficiency
- DC OK active signal and redundant function(option)
- Single Output 3.3-24V DC SCP, OLP, OVP



56YMR5-xy Series

5W Encapsulated AC/DC PCB Mount Power Supply



ROHS CA CE

The 56YMR5-xy Series is a high-quality and reliable 5W Encapsulated AC/DC PCB Mount Power Supply. Designed for use in applications such as commercial, industrial and OEM electronics. This series is supplied with a Encapsulated input connection and supports input voltages of 100~277V AC 47-440Hz.

Model Number Information			
56YMR	5	xy	
Series Name	Rated Wattage	Output Voltage	

Models					
Model Number	Rated Power (W)	DC Voltage (V)	Rated Current (A)	Efficiency (%)	Max. Capacitive Load (uF)
56YMR5-3.3-xy	4.125	3.3	1.25	74	12000
56YMR5-5-xy	5	5	1	78	8500
56YMR5-12-xy	5.04	12	0.42	80.5	1600
56YMR5-15-xy	4.95	15	0.33	82.5	960
56YMR5-24-xy	5.52	24	0.23	81	500





Input Specifications	S		
Innut Voltage	100-277VAC		
Input Voltage			
Frequency Range	47-440Hz		
AC Current	0.3A/115VAC	0.1A/230VAC	0.08A/277VAC
Inrush Current	Cold Start 40A/80	0us at 230VAC 50H	z Cold Start 20A/800us at 115VAC 50Hz
Leakage Current	<0.707mA/264VA	.C	

Output Specifications		
Voltage Tolerance	+2.5%	
Line Regulation	+0.3%	
Load Regulation	±0.5%	
Setup,Rise,Hold up Time	1.2s,30ms,80ms/230VAC(at full load)	1.4s,30ms,12ms/115VAC(at full load)

Protection					
	110~260%				
Over Load		recovers automatically	after fault condition i	s removed	
Short Circuit	Hiccup mode, recovers automatically after fault condition is removed.				
0	3.8 ~ 6V	5.8 ~ 7.5V	12.8 ~ 16V	17 ~ 24V	27 ~ 34V
Over Voltage	Recovers autor	matically after fault cor	dition is removed.		

Environmental Characteristics				
Working Temp	-30 ~ +85°C(Full load can be operated at -30°C to 50°C, while load should be reduced at 50°C to 85°C			
vvolking romp	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%/(0 ~ 40°C)			
Soldering Temperature	Wave soldering:265°C,5s(max.); Manual soldering:390'°C,3s(max.)			
Over Voltage Category	OVC II; According to EN62368-1; altitude up to 2000 meters			



Safety & EMC					
Safety Standards	EN62368-1				
Withstand Voltage	I/P-O/P: 3KVAC/1min				
Isolation Resistance	I/P-O/P:100M Ohms / 500VDC / 25°C/ 70% RH				
	Parameter	Standard	Test Level		
	Conducted	BS EN/EN55032(CISPR32)	CLASS B		
EMC Emission	Radiated	BS EN/EN55032(CISPR32)	CLASS B		
	Harmonic Current	EN61000-3-2	CLASS A		
	Voltage flicker	EN61000-3-3			
	BS EN/EN55035, BS EN/EN61000-6-2				
	Parameter	Standard	Test Level		
	ESD	EN61000-4-2	Level 3, 8KV air,Level 2, 4KV contact criteria A		
	Radiated Susceptibility	EN61000-4-3	Level 3, criteria A		
EMC Immunity	EFT/Burest	EN61000-4-4	Level 3, criteria A		
EWC IIIIIIuiity	Surge	EN61000-4-5	Level 3, 1KV/L-N, criteria A		
	Conducted	EN61000-4-6	Level 3, criteria A		
	Magnetic Field	EN61000-4-8	Level 4, criteria A		
	Voltage Dips and interruptions	EN61000-4-11	> 95% dip 0.5 periods, 30% dip 25 periods>95% interruptions 250 periods		

Notes:

- 1. All parameters without special description are measured under the conditions of input 230VAC, rated load, ambient temperature 25 ° C, and ambient humidity less than 75%.
- 2. Ripple & noise are measured from peak to peak with a bandwidth limit of 20MHz(0.1uf and 47uf /50V parallel capacitor under DC output full load, AC nominal input 25 °C ambient temperature).
- 3. Tolerance: includes set up tolerance, line and load regulation.
- 4. Derating may be needed under low input voltages. Please check the derating curve for more details.
- 5. The power supply is considered a component which will be installed into the final equipment. The final equipment must be confirmed to meet EMC directives. For guidance on performing these EMC tests, please refer to "EMI testing of component power supplies."
- 6. The ambient temperature derating of 3.5°C/1000m is needed for operating altitude greater than 2000m(6500ft).

Dimensions & W	eight	
	Measurements	
56YMR5-xy	46.08 x 25.78 x 21.7 mm	
Packaging		
Carton Size	41 x 37 x 19.5 cm	



Derating Curves Derating Curve Static Characteristics 100 100 80 Load(%) Load(%) 60 60 50 40 40 20 20 85 100 120 140 180 200 80 85 Ambient Temperature (°C) Input Voltage (VAC) 60Hz



