

Features

- Wide Input Voltage Range 85-305V AC
- Approved to UKCA, CE, RoHS
- EN62368-1 Safety Approved
- 82% Efficiency
- DC OK active signal and redundant function(option)
- Single Output 3.3-24V DC
- SCP, OLP, OVP

QR Code

Ideal Power Will Do This

56YMR10-xy Series

10W Encapsulated AC/DC PCB Mount Power Supply



ROHS CH CE

The 56YMR10-xy Series is a durable and consistent 10W Encapsulated AC/DC PCB Mount Power Supply. Designed for use in applications such as computing platforms and communications equipment. This series is supplied with a Encapsulated input connection and supports input voltages of 85-305V AC 47-63Hz.

Models					
Model Number	Rated Power (W)	DC Voltage (V)	Rated Current (A)	Efficiency (%)	Max. Capacitive Load (uF)
56YMR10-3.3-xy	8.25	3.3	2.5	80	8000
56YMR10-5-xy	10	5	2	82	5000
56YMR10-12-xy	10.2	12	0.85	82	2000
56YMR10-15-xy	9.9	15	0.66	82	1000
56YMR10-24-xy	10.08	24	0.42	81	800





Input Specifications	3		
Input Voltage	85-305VAC		
Frequency Range	47-63Hz		
AC Current	0.3A/115VAC	0.15A/230VAC	0.125A/277VAC
Inrush Current	Cold Start 40A/400	Ous at 230VAC 50Hz	Cold Start 20A/600us at 115VAC 50Hz
Leakage Current	<0.707mA/264VA0	C	

Output Specifications		
Voltage Tolerance	+2.5%	
Line Regulation	+0.3%	
Load Regulation	±0.5%	
Setup,Rise,Hold up Time	1.0s,30ms,30ms/230VAC(at full load)	1.5s,30ms,8ms/115VAC(at full load)

Protection					
	110~260%				
Over Load	Hiccup mode, recovers automatically after fault condition is removed				
Short Circuit	Hiccup mode, recovers automatically after fault condition is removed.				
0 1/ 1/	3.8 ~ 6V	5.8 ~ 7.5V	12.8 ~ 16V	17 ~ 24V	27 ~ 34V
Over Voltage	Recovers automatically after fault condition 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 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.)			
Vibration	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes			
MTBF	1364.7Khrs min. MIL-HDBK-217F(25°C)			
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		
LINIC IIIIIIIIIIIII	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 & We	eight	
	Measurements	
56YMR10-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 75 Load(%) 80 85 Input Voltage (VAC) 60Hz Ambient Temperature (C)



