

## **Features**

- Input Voltage Range
   85-305VAC
- EN62368-1 Safety Approved
- No Load Power
   Consumption<0.1W</li>
- Wide Operating
   Temperature range -30~85°C
- Isolation Class II
- 91% Efficiency
- Single Output 5-48V DC
- Protections: SCP, OLP, OVP
- Three years warranty



## 56YMR60-xx□ Series

60W Encapsulated AC/DC PCB Mount Power Supply



The 56YMR60-xx Series is a reliable and efficient 60W Encapsulated AC/DC PCB Mount Power Supply. Designed for use in applications such as telecoms, computing and multimedia systems. This series is supplied with a Pin Connection or Screw Terminal input connection and supports input voltages of 85~305V AC 47-63Hz.

Model Number Information				
56YMR	60	xx		
Series Name	Rated Wattage	Output Voltage	T: Terminal Block Blank: PCB Mounting Style	

Models					
Model Number	Rated Power (W)	DC Voltage (V)	Rated Current (A)	Efficiency (%)	Max. Capacitive Load (uF)
56YMR60-5□	50	5	10	83	20000
56YMR60-12□	60	12	5	88	8000
56YMR60-15□	60	15	4	88	5000
56YMR60-24□	60	24	2.5	89.5	4200
56YMR60-48□	60	48	1.25	91.5	800





Input Specifications			
Input Voltage	85-305VAC		
Frequency Range	47-63Hz		
AC Current	1.5A/115VAC 0.9A/230VAC	0.75A/277VAC	
Inrush Current	Cold Start 60A/600us at 230VAC	C 50Hz	Cold Start 30A/600us at 115VAC 50Hz
Leakage Current	<0.25mA/264VAC		

Output Specifications			
Voltage Tolerance	+2.5%		
Line Regulation	+0.5%		
Load Regulation	±1.0% 56YMR60-5/12 models	+0.5% Other models	3
Setup,Rise,Hold up Time	0.2s,35ms,50ms/230VAC(at full lo	oad)	0.3s,35ms,5ms/115VAC(at full load)

Protection					
0 1 1	115~160%				
Over Load	Hiccup mode, re	covers automatically	after fault condition	is removed	
Short Circuit	Hiccup mode, re	covers automatically	after fault condition is	removed.	
	5.25 ~ 7.5V	12.8 ~ 16V	17 ~ 24V	27 ~ 34V	50.4 ~ 63V
Over Voltage	Hiccup mode, re	covers 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			
Working remp	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	PCB Mounting: 10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes			
VIDIALIOII	Terminal Blocks: 10 ~ 500Hz, 5G 10min./1cycle, period for 60min. each along X, Y, Z axes			
MTBF	755.4Khrs 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		
EMC IIIIIIIIIII	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 & Weigh	t
	Measurements
56YMR60-xx	87 × 52 x 30 mm
56YMR60-xxT	109.3 × 52.7 x 33.9 mm
Packaging	
Carton Size	48×27.5x16cm 50pcs/Carton- 56YMR60-xx 31.5×24.5x22cm 50pcs/Carton- 56YMR60-xxT







