

Features

- Universal Input 85-305VAC
- Approved to UL, CB, CE, RoHS
- UL/EN/IEC 62368-1, EN 60335-1 Safety approved
- 88% Efficiency
- OVC II (EN 62368-1 & OVC II (EN 60335-1);
 2000m altitude
- Single Output 5-48V DC
- SCP, OLP, OVP



56YMR30-xx□ Series

30W Encapsulated AC/DC PCB Mount Power Supply



The 56YMR30-xx Series is a performance-focused 30W Encapsulated AC/DC PCB Mount Power Supply. Designed for use in applications such as network equipment and signal distribution hardware. This series is supplied with a Pin or Screw Terminal input connection and supports input voltages of 85~305V AC 47-63Hz.

Model Number Information				
56YMR	30	XX		
Series Name	Rated Wattage	Output Voltage	Terminal Block PCB Mounting Style	

Models					
Model Number	Rated Power (W)	DC Voltage (V)	Rated Current (A)	Efficiency (%)	Max. Capacitive Load (uF)
56YMR30-05□	30	5	6	85	8000
56YMR30-12□	30	12	2.5	87	5000
56YMR30-15□	30	15	2	87	2000
56YMR30-24□	30	24	1.25	87	1000
56YMR30-48□	30	48	0.63	88	800





Input Specifications	S		
Input Voltage	85-305VAC		
Frequency Range	47-63Hz		
AC Current	1.0A/115VAC	0.5A/230VAC	
Inrush Current	Cold Start 45A/400	us at 230VAC 50Hz	Cold Start 25A/600us at 115VAC 50Hz
Leakage Current	<0.25mA/264VAC		

Output Specifications		
Voltage Tolerance	+2.0%	
Line Regulation	+0.5%	
Load Regulation	±1.0%	
Setup,Rise,Hold up Time	1.5s,30ms,40ms/230VAC(at full load)	1.9s,30ms,10ms/115VAC(at full load)

Protection					
Over Load	115~160%				
Over Load	Hiccup mode, recovers automatically after fault condition is removed				
Short Circuit	Hiccup mode, recovers automatically after fault condition is removed.				
0 1/ "	5.25 ~ 7.5V	12.8 ~ 16V	17 ~ 24V	27 ~ 34V	50.4 ~ 63V
Over Voltage	Recovers automa	atically after fault con	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		
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 Terminal Blocks: 10 ~ 500Hz, 5G 10min./1cycle, period for 60min. each along X, Y, Z axes		
MTBF	654.7Khrs min. MIL-HDBK-217F(25°C)		
Over Voltage Category	OVC II in accordance with EN 62368-1 or OVC III in accordance with EN 60335-1; altitude up to 2000m		



Safety & EMC					
Safety Standards	EN IEC 62368-1, IEC 62368-1, EN 60335-1, UL 62368-1				
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 & We	ight	
	Measurements	
56YMR30-xx	69.5 × 39 x 24 mm	
56YMR30-xxT	91 × 39.5 x 28.5 mm	
Packaging		
Carton Size	32.5×17.5x25cm - 56YMR30-xx 41.5×25x17cm - 56YMR30-xxT	







