

Features

- Input Voltage Range
90-264V AC
- No-load power consumption
< 0.1 W
- Operating Temperature
Range: -30°C~+70°C
- Efficiency up to 82%
- EN/IEC/UL 62368-1 Safety
Standards
- Protections: SCP, OLP, OVP
- Three Years Warranty



56YSM10-xy Series

10W Encapsulated AC/DC Power Supply



The 56YSM10-xy Series is a regulated and reliable 10W Enclosed AC/DC Power Supply. Designed for use in applications such as system-critical media and control infrastructure. This series is supplied with a Pin Connection input connection and supports input voltages of 90~264V AC 50~60Hz.

Model Number Information

56YSM	10	xy
Series Name	Rated Wattage	Output Voltage

5W Models

Model Number	DC Voltage (V)	Rated Current (A)	Rated Power (W)	Efficiency (%)	Ripple & Noise (mVp-p)
56YSM10-0331250	3.3	1.25	4.125	74	120
56YSM10-0501000	5	1	5	77	120
56YSM10-1200420	12	0.42	5.04	82	180
56YSM10-1500330	15	0.33	4.95	82	180
56YSM10-2400230	24	0.23	5.52	82	200

10W Models

Model Number	DC Voltage (V)	Rated Current (A)	Rated Power (W)	Efficiency (%)	Ripple & Noise (mVp-p)
56YSM10-0332500	3.3	2.5	8.25	74	120
56YSM10-0502000	5	2	10	77	120
56YSM10-1200850	12	0.85	10.	82	180
56YSM10-1500670	15	0.67	10.05	82	180
56YSM10-2400420	24	0.42	10.08	82	200

Input Specifications

Input Voltage	90-264VAC 50/60Hz	
AC Current	Up to 5.5W	0.12A/115VAC, 0.08A/230VAC, 0.06A/277VAC
	8.25 - 10W	0.25A/115VAC, 0.15A/230VAC, 0.125A/277VAC
Inrush Current	COLD START 20A/115VAC 40A/230VAC	
Leakage Current	< 0.25mA/277VAC	

Output Specifications

Voltage Tolerance	±2.5%				
Line Regulation	±0.3%				
Load Regulation	±0.5%				
Set up, Rise Time	1000ms, 30ms/230VAC 1000ms, 30ms/115VAC at full load				
Hold up Time	40ms/230VAC 8ms/115VAC at full load				

Protection

Over Load	115% ~ 190% rated output power, Protection type: Hiccup Mode recovers automatically after fault condition is removed				
Over Voltage	115% ~ 135%, Protection Type: Clamp by Zener Diode				

Environmental Characteristics

Working Temp	-30~+70°C (Refer to "Derating Curve")				
Working Humidity	20~90% RH non-condensing				
Storage Temp., Humidity	-30~+85°C, 10~95% RH non-condensing				
Temp. Coefficient	±0.03%/°C (0~60°C)				
Vibration	10 ~ 500Hz, 5G 10min. /1cycle, period for 60min. each along X, Y,Z axes				

Safety & EMC

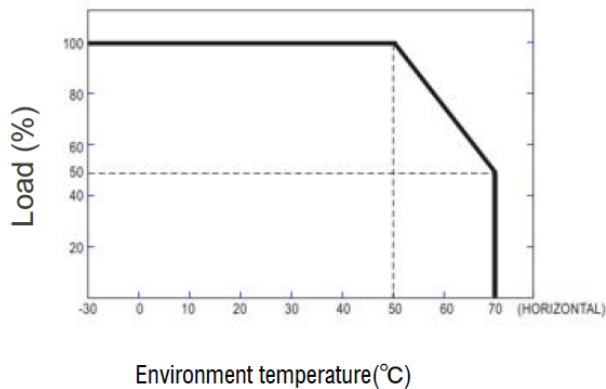
Safety Regulations	IEC62368-1, UL62368-1, TUV EN62368-1, EAC TP TC 004, -1 approved				
Withstand Voltage	I/P-O/P:3KVAC				
EMC Emission	EN55032(CISPR32), CNS13438, EN61000-3-2 Class A, EN61000-3-3				

Other Specifications

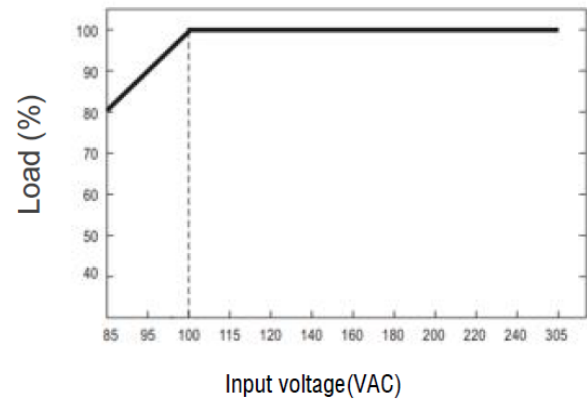
MTBF	>9000K hrs min.				
Size	45.7 x 25.4 x 21.5 mm - Both models				

Derating Curves

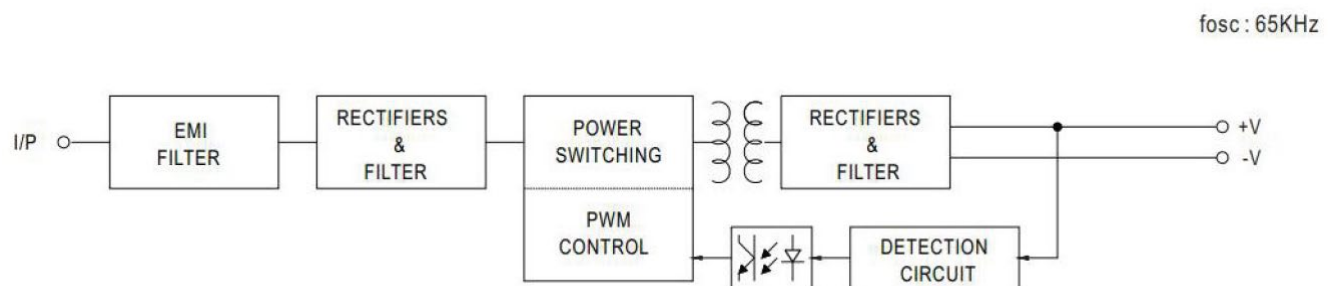
Deduction curve and temperature



Minus output and input voltage curves



Functional Diagram



Dimensions and Recommended Layout

