

Features

- Input Voltage Range
90-264V AC
- No-load power consumption
< 0.1 W
- Operating Temperature
Range: -30°C~+70°C
- Efficiency up to 83%
- EN/IEC/UL 62368-1 Safety
Standards
- Protections: SCP, OLP, OVP
- Three Years Warranty



56YSM20-xy Series

20W Encapsulated AC/DC Power Supply



The 56YSM20-xy Series is a regulated and reliable 20W 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	20	xy
Series Name	Rated Wattage	Output Voltage

Models

Model Number	DC Voltage (V)	Rated Current (A)	Rated Power (W)	Efficiency (%)	Ripple & Noise (mVp-p)
56YSM20-0333500	3.3	3.5	11.55	74	150
56YSM20-0503000	5	3	15	78	150
56YSM20-1201250	12	1.25	15	82	150
56YSM20-1501000	15	1	15	82	180
56YSM20-2400630	24	0.63	15.12	83	180

Input Specifications	
Input Voltage	90~264VAC 50/60Hz
AC Current	15W 0.35A/115VAC 0.2A/230VAC 0.17A/277VAC
Inrush Current	COLD START 20A/115VAC 40A/230VAC
Leakage Current	< 0.25mA/277VAC

Output Specifications	
Voltage Tolerance	±2.0%
Line Regulation	±0.3%
Load Regulation	±0.5%
Set up, Rise Time	1500ms, 30ms/230VAC 1500ms, 30ms/115VAC at full load
Hold up Time	40ms/230VAC 10ms/115VAC at full load

Protection	
Over Load	115% ~ 160% rated output power, Protection type: Hiccup Mode recovers automatically after fault condition is removed
Over Voltage	115% ~ 135%, Protection Type: Clamp by Zener Diode

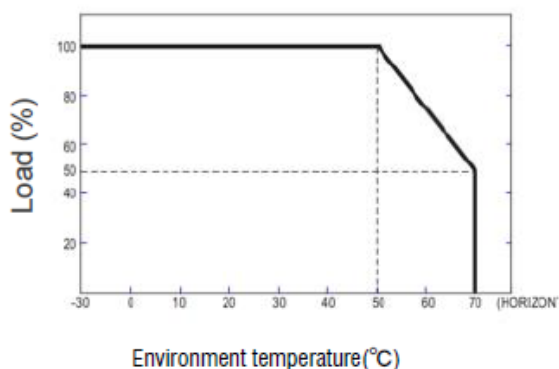
Environmental Characteristics	
Working Temp	-30~+70°C (Refer to "Derating Curve")
Working Humidity	20~90% RH non-condensing
Storage Temp., Humidity	-30~+85°C, 10~95% RH non-condensing
Temp. Coefficient	±0.03%/°C (0~60°C)
Vibration	10 ~ 500Hz, 5G 10min. /1cycle, period for 60min. each along X, Y,Z axes

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

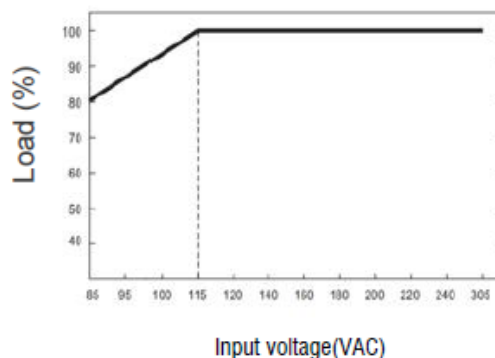
Other Specifications	
MTBF	> 7000K hrs min.
Size	52.4 x 27.2 x 24 mm

Derating Curves

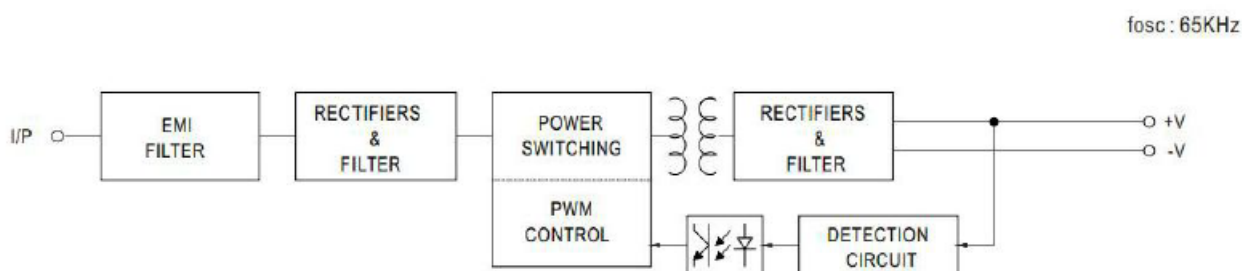
Deduction curve and temperature



Minus output and input voltage curves



Functional Diagram



Dimensions and Recommended Layout

