

## Features

- Voltage Input Range 85~277V AC
- No-load power consumption < 0.1 W
- Operating Temperature Range: -30°C~+70°C
- Efficiency up to 77%
- Safety Standards to IEC/UL 62368-1
- Output SCP, OLP, OVP
- Three Years Warranty



Ideal Power's 56YSM05-xy 5W Enclosed AC/DC Power Supply (PSU) Series are certified to UKCA, CE, CB, cULus & BS EN62368-1, UL62368-1 Standards and comply with the relevant Efficiency Regulations. These are primarily used in ITE, Audio & Video Industries and customised solutions are available upon request.

### Models

Model Number	DC Voltage (V)	Rated Current (A)	Rated Power (W)	Efficiency (%)	Ripple & Noise (mVp-p)
56YSM05-0331000	3.3	1	4.125	68	120
56YSM05-0501000	5	1	5	71	120
56YSM05-1200420	12	0.42	5	75	150
56YSM05-1500330	15	0.33	5	75	150
56YSM05-2400230	24	0.23	5.5	77	200

### Input Specifications

Input Voltage	85-277VAC 50/60Hz
AC Current	0.12A/115VAC, 0.08A/230VAC, 0.06A/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 Protection	115% ~ 190% rated output power, Protection type: Hiccup Mode recovers automatically after fault condition is removed
Over Voltage Protection	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

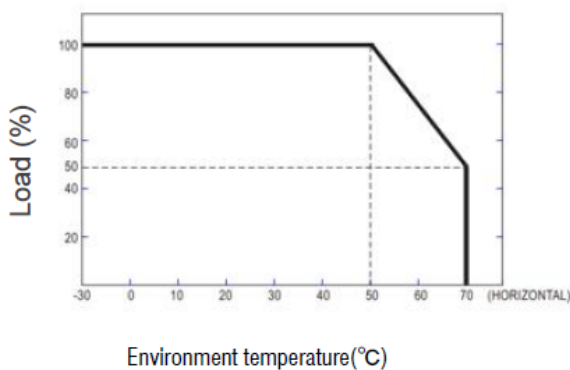
Safety Regulations:	IEC62368-1, UL62368-1, TUV EN62368-1, EAC TP TC 004, -1 approved
Withstand Voltage:	I/P-O/P:3KVAC
EMC Emission:	EN55032(CISPR32), CNS13438, EN61000-3-2 Class A, EN61000-3-3

### Other Specifications

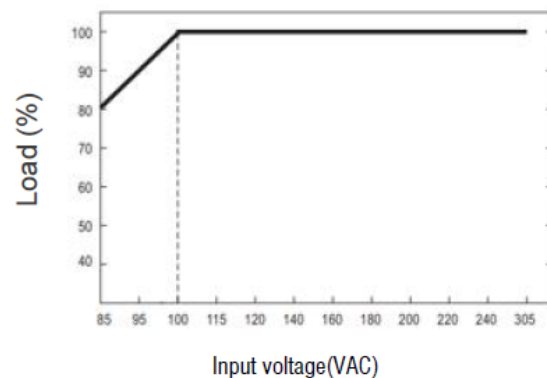
MTBF	>9000K hrs min.
Size	45.7 x 25.4 x 21.5 mm

### Derating Curve

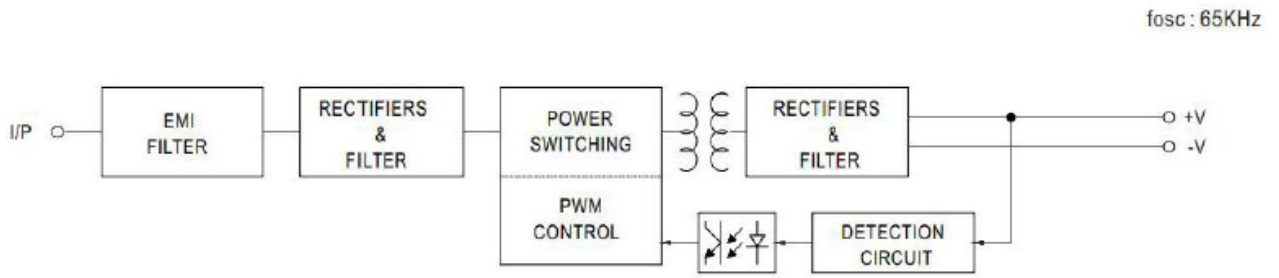
**Deduction curve and temperature**



**Minus output and input voltage curves**



Functional Diagram



Dimensions and Recommended Layout

