

Features

- Voltage Input Range 85~277V AC
- No-load power consumption < 0.1 W
- Operating Temperature Range: -30°C~+70°C
- Efficiency up to 83%
- Safety Standards to IEC/UL 62368-1
- Output SCP, OLP, OVP
- Three Years Warranty



Ideal Power's 56YSM15-xy 15W 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) |
|-----------------|----------------|-------------------|-----------------|----------------|------------------------|
| 56YSM15-0333500 | 3.3 | 3.5 | 11.55 | 74 | 150 |
| 56YSM15-0503000 | 5 | 3 | 15 | 78 | 150 |
| 56YSM15-1201250 | 12 | 1.25 | 15 | 82 | 150 |
| 56YSM15-1501000 | 15 | 1 | 15 | 82 | 180 |
| 56YSM15-2400630 | 24 | 0.63 | 15.12 | 83 | 180 |

Input Specifications

| | |
|-----------------|---------------------------------------|
| Input Voltage | 85-277VAC 50/60Hz |
| AC Current | 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 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

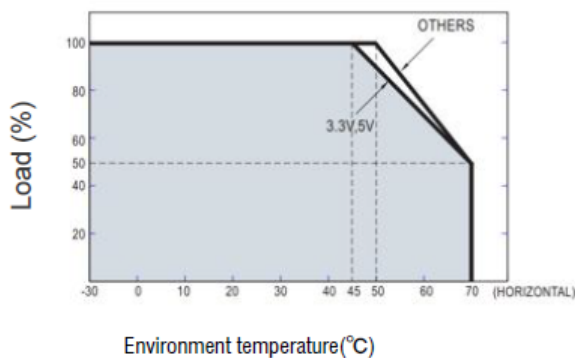
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|---------------------|--|--|
| Safety Regulations: | IEC62368-1, UL62368-1, TUV EN62368-1, EAC TP TC 004, -1 approved | |
| Withstand Voltage: | I/P-O/P:3KVAC | |
| EMC Emission: | EN55032(CISPR32), CNS13438, EN61000-3-2 Class A, EN61000-3-3 | |

Other Specifications

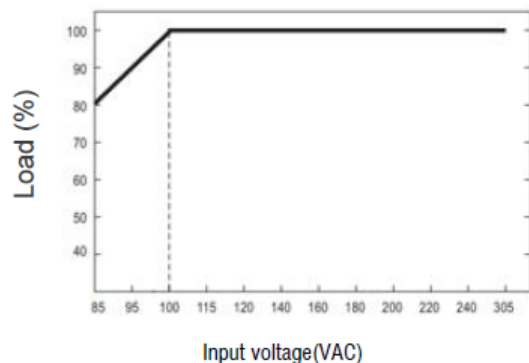
| | |
|------|---------------------|
| MTBF | >7000K hrs min. |
| Size | 52.4 x 27.2 x 24 mm |

Derating Curve

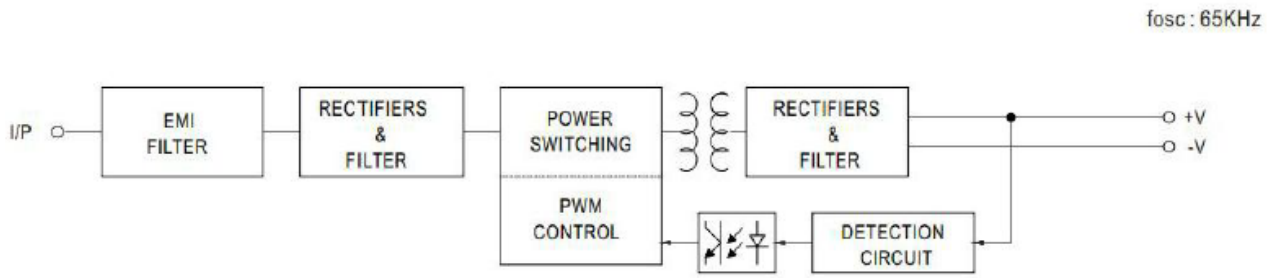
Deduction curve and temperature



Minus output and input voltage curves



Functional Diagram



Dimensions and Recommended Layout

