

Features

- Voltage Input Range 85~277V AC
- No-load power consumption < 0.1 W
- Operating Temperature Range: -40°C~+85°C
- Efficiency up to 90%
- Safety Standards to IEC/UL 62368-1
- Output SCP, OLP, OVP
- Three Years Warranty



Ideal Power's 56YSM30T-xy 30W 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)
56YSM30T-0506000	5	6	30	83	120
56YSM30T-1202500	12	2.5	30	88	150
56YSM30T-1502000	15	2	30	88	180
56YSM30T-2401300	24	1.3	30	88.5	240
56YSM30T-4800630	48	0.63	30	90	300

Input Specifications

Input Voltage	85-277VAC 50/60Hz
AC Current	0.6A/115VAC 0.4A/230VAC 0.3A/277VAC
Inrush Current	COLD START 20A/115VAC 40A/230VAC
Leakage Current	< 0.25mA/277VAC

Output Specifications

Voltage Tolerance	±2.0%
Line Regulation	12V ±0.5%, Others ±0.3%
Load Regulation	±0.5%
Set up, Rise Time	500ms, 30ms/230VAC, 500ms, 30ms/115VAC at full load
Hold up Time	40ms/230VAC, 12ms/115VAC at full load

Protection

Over Load Protection	115% ~ 160% 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

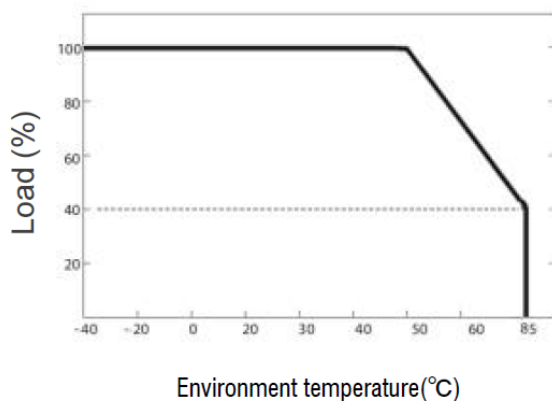
Safety Regulations:	IEC62368-1, UL62368-1, TUV EN62368-1, EAC TP TC 004, -1 approved
Withstand Voltage:	I/P-O/P:3KVAC
EMC Emission:	EN55032(CISPR32), CNS13438, EN61000-3-2 Class A, EN61000-3-3

Other Specifications

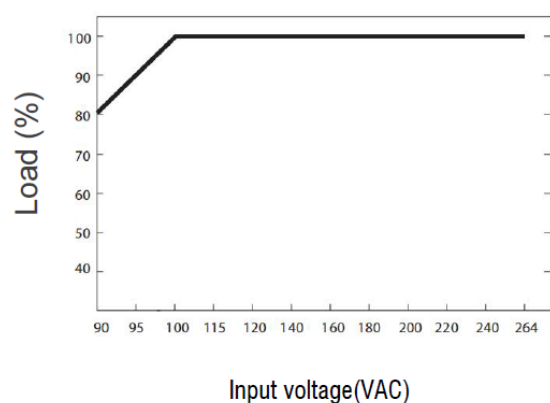
MTBF	>6000K hrs min.
Size	91 x 39.5 x 28.5 mm

Derating Curve

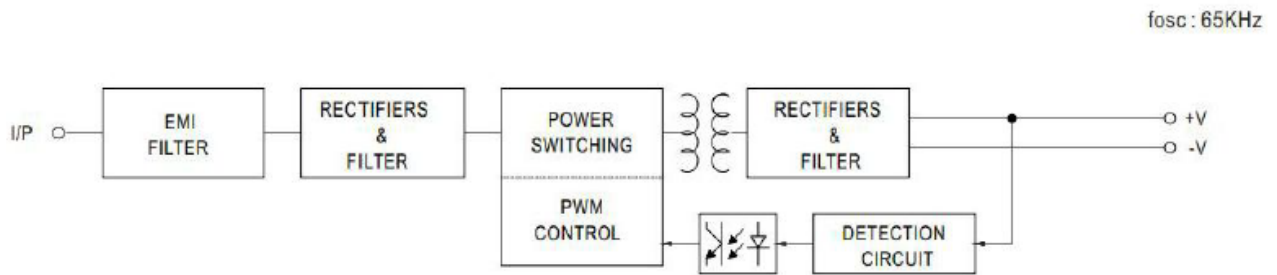
■ Deduction curve and temperature



■ Minus output and input voltage curves



Functional Diagram



Dimensions and Recommended Layout

