

YSM30T Series

Power Module

Input: 85-277VAC 50/60Hz | Output Voltage: 12V-48V DC | Rated Power: 30W max

Features

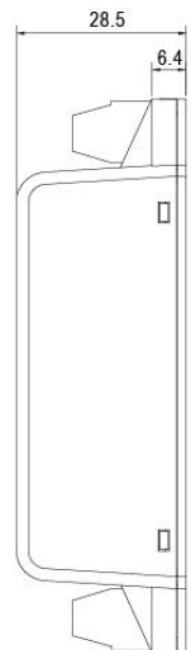
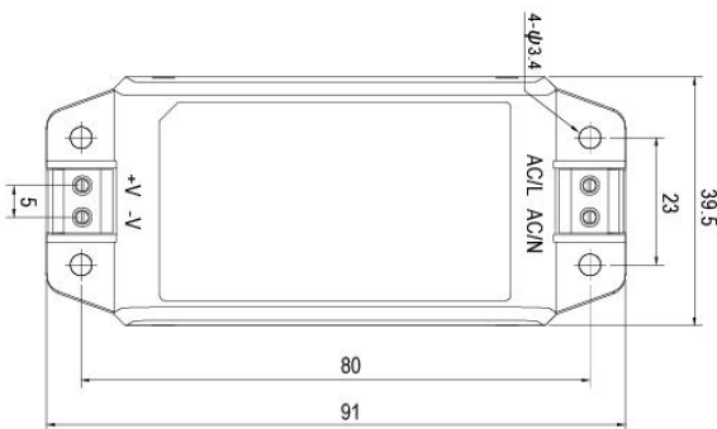
- Compact appearance
- International general input 100-240VAC
- No-load power consumption < 0.1 W
- EMC meets Class B requirements without additional components
- Wide operating temperature range from -30° C to 70° C
- Protection type: short circuit / over load / over voltage
- Natural air cooling
- Class II isolation level
- By LPS
- Silicon potted – for rough environment use



Application

- Industrial electrical installation
- Mechanical equipment
- Industrial automation equipment
- Handheld electronic equipment

Dimensions and Installation



YSM30T- 1202500	YSM30T- 1502000	YSM30T- 2401250	YSM30T- 4800630
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Output

DC Voltage:	12V	15V	24V	48V
Rated Current:	2.5A	2A	1.25A	0.63A
Rated Power:	30W	30W	30W	30W
Ripple and Noise:	150mVp-p	200mVp-p	240mVp-p	300mVp-p
Line Regulation:	±0.5%	±0.5%	±0.5%	±0.5%
Load Regulation:	±0.5%	±0.5%	±0.5%	±0.5%

Input

Input Voltage:	85-277VAC 50/60Hz			
Efficiency:	88%	88%	88.5%	90%
AC Current:	0.6A/115VAC 0.4A/230VAC 0.3A/277VAC			
Inrush Current:	COLD START 20A/115VAC 40A/230VAC			
Leakage Current:	< 0.25mA/277VAC			

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

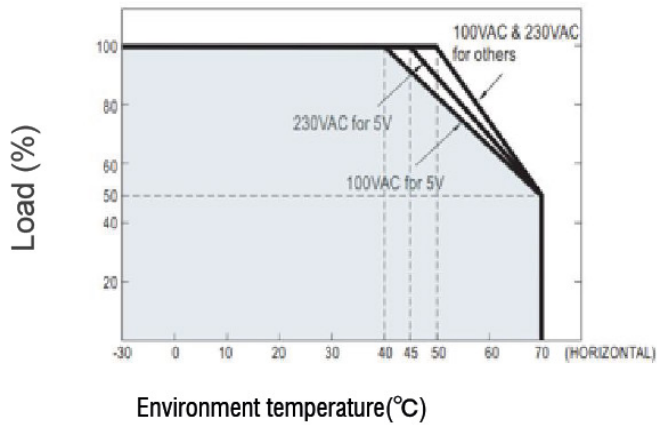
Safety & EMC

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

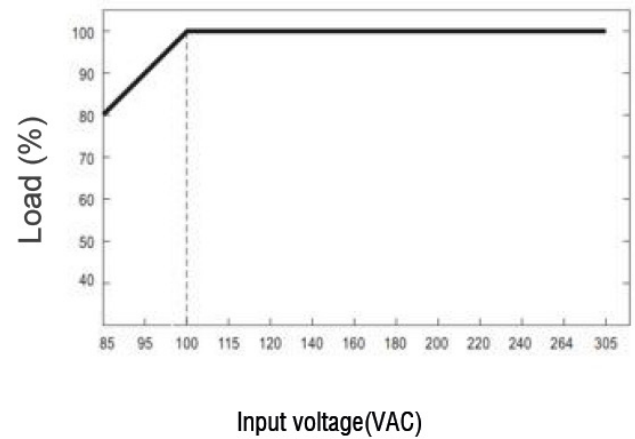
Other

MTBF:	>50000h
Size:	91*39.5*28.5mm

Deduction curve and temperature



Minus output and input voltage curves



Functional Diagram

fosc : 65KHz

