YINGJIAO®

Power Module

YSM10H 10W SERIES



Input:85-305VAC 50/60Hz
Output Voltage: 3.3V-24V DC
Rated Power :10W max

Features

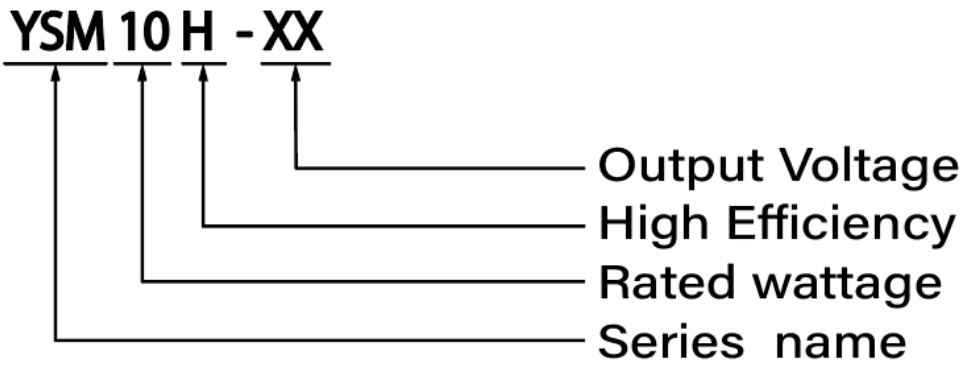
Compact appearance
No-load power consumption < 0.1 W
EMC meets Class B requirements without additional components
Wide operating temperature range from -30 ℃ to 70℃
Protection type: short circuit / over load / over voltage
Natural air cooling
Class Ⅱ isolation level
Over-voltage class Ⅲ (designed to meet EN61558)
By LPS
Three Year Warranty

CB SCHEME CE

Application

Industrial electrial installation
Mechanical equipment
Industrial automation equipment
Handheld electronic equipment
Handheld equipment

Model Encoding



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MODEL DETAIL SPEC.		YSM10H-3.3	YSM10H-5	YSM10H-12	YSM10H-15	YSM10H-24
OUTPUT	DC Voltage:	3.3V	5V	12V	15V	24V
	Rated Current:	2.5A	2A	0.85A	0.67A	0.42A
	Rated Power:	8.25W	10W	10.2W	10W	10W
	Ripple and Noise:	200mVp-p	200mVp-p	200mVp-p	200mVp-p	200mVp-p
	Voltage Tolerance：	±2.0%				
	Line Regulation:	±0.5%				
	Load Regulation:	±0.5%				
	Setup, Rise Time：	1000ms, 30ms/230VAC 2000ms, 30ms/115VAC at full load				
	Hold Up Time (Typ.)：	40ms/230VAC 8ms/115VAC at full load				
INPUT	Input Voltage:	85-305VAC 50/60Hz				
	Average Efficiency:	74%	77%	82%	82%	82%
	AC Current:	0.25A/115VAC 0.15A/230VAC 0.125A/277VAC				
	Inrush Current:	COLD START 20A/115VAC 40A/230VAC				
	Max.Capacitive Load:	6600uF	5000uF	2000uF	820uF	470uF
	Leakage Current:	＜0.25mA/277VAC				
ENVIRONMENTAL	Working Temp:	-30～+70℃ (Refer to "Derating Curve")				
	Working Humidity:	20～90% RH non-condensing				
	Storage Temp., Humidity:	-40～+85℃, 10～95% RH non-condensing				
	Temp. Coefficient:	±0.03%/℃ (0～50℃)				
	Vibration:	10 ～ 500Hz, 5G 10min. /1cycle, period for 60min. each along X,Y,Z axes				
PROTECTION	Over Load Protection:	115% ～ 190% rated output power, Protection type: Hiccup Mode,recovers automatically after fault condition is removed				
	Over Voltage Protection:	3.3～7.5V	5.5～9V	13～16.5V	17～24V	26～34V
		Protection type : Hiccup Mode, shut off o/p voltage, clamping by zener diode				
	Short circuit Protection:	Protection type: Hiccup Mode,recovers automatically after fault condition is removed				
SAFETY & EMC	Safety Regulations:	IEC62368-1, UL62368-1, TUV BS EN/EN62368-1 approved，IEC/EN60335-1(pending)				
	Withstand Voltage:	I/P-O/P:4KVAC/min				
	Isolation Resistance:	I/P-O/P:100M Ohms / 500VDC / 25℃/ 70% RH				
	EMC Emission:	EN55032 (CISPR32) CNS13438 Class B, EN61000-3-2 Class A, EN61000-3-3				
	EMC Immunity:	BS EN/EN61000-4-2,3,4,5,6 Level 3, criteria A;BS EN/EN61000-4-8 Level 4, criteria A;BS EN/EN61000-4-11				
OTHER	MTBF:	＞1800k hrs min MIL-HDBK-217F(25℃)				
	Size:	52.5*27.4*23mm				
	Packing	0.065Kg/Pcs;13.5Kg/200Pcs/0.94CUFT				

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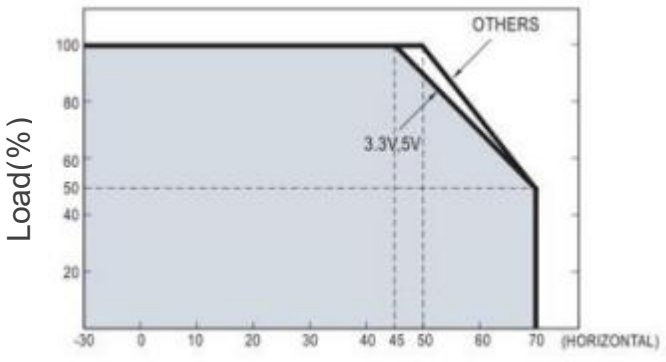
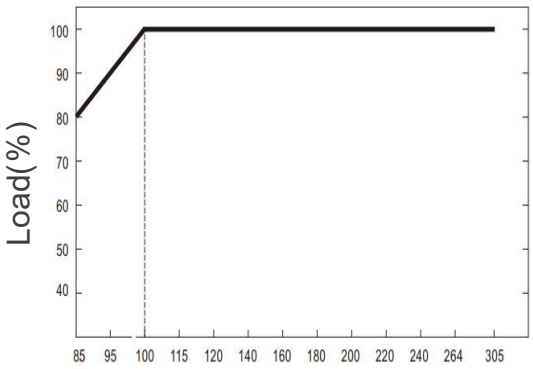
Deduction curve and temperature



Environment temperature(℃)

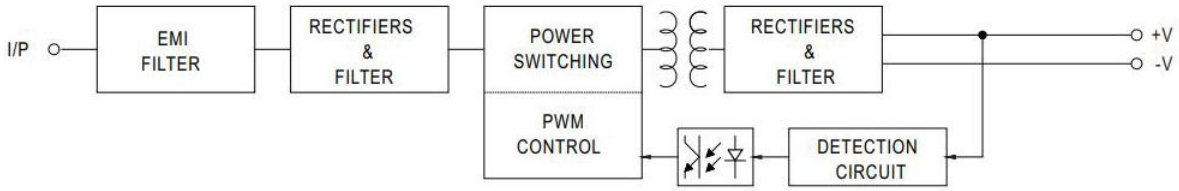
Minus output and input voltage curves



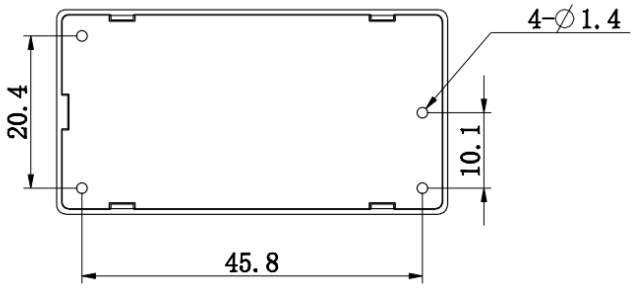
Input voltage(VAC)

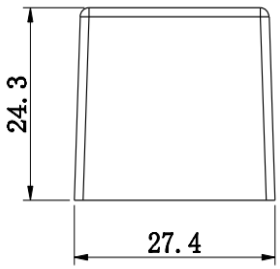
Functional Diagram

fosc : 65KHz



Dimension Drawing (mm)

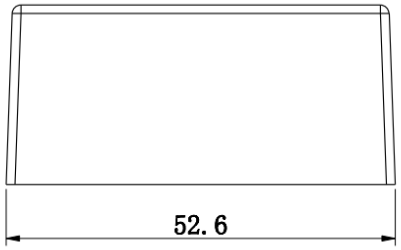


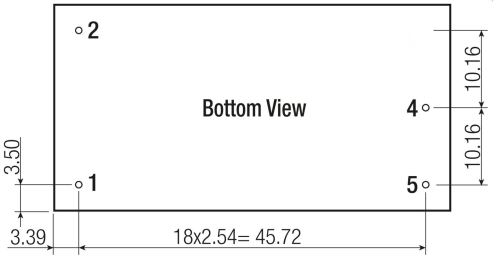


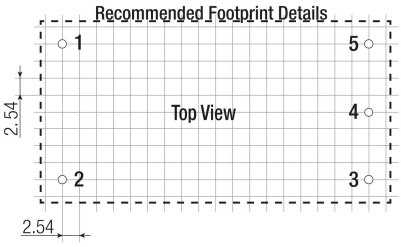
Pin Connections

Pin #	Single	Dual
1	VAC in (N)	VAC in (N)
2	VAC in (L)	VAC in (L)
3	No Pin	-Vout
4	-Vout	COM
5	+Vout	+Vout

Tolerance: xx.x= ±0.5mm
xx.xx= ±0.25mm







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Note:

1.All parameters are specified at 115/230VAC input, rated load, 2
2.DC voltage: The output voltage set at point measure by plug te
3.Ripple & noise are measured at 20MHz by using a 12" twisted pair terminated with a 0.1uf & 47uf capacitor.
4.Tolerance: includes set up tolerance, line regulation, load regulation.
5.Line regulation is measured from low line to highline at rated load. 6.Load regulation is measured from 10% to 100% rated load.