



## JM10B Series

6.6W - 12W encapsulated  
AC/DC modules



### Features

- Universal input 90~264VAC
- Efficiency up to 85%
- 4kVac isolation
- Meets EN55022 / 24 Class B (please ask factory)
- Meets UL/IEC60950-1
- Continuous short circuit protection
- Fully encapsulated plastic case
- Designed for class II



MODEL	Output Voltage	Max. Load	Ripple & Noise	Voltage Accuracy	Line Reg.	Load Reg.	% EFF. (Typ.)
JM10B-3V3S	3.3V	2A	150mV	±3%	±0.2%	±1%	72%
JM10B-05S	5V	2A	150mV	±3%	±0.2%	±0.5%	75%
JM10B-10S	10V	1A	150mV	±2%	±0.2%	±0.5%	80%
JM10B-12S	12V	1A	150mV	±2%	±0.2%	±0.5%	82%
JM10B-15S	15V	0.8A	150mV	±2%	±0.2%	±0.5%	82%
JM10B-24S	24V	0.5A	150mV	±2%	±0.2%	±0.5%	85%
JM10B-36S	36V	0.33A	240mV	±2%	±0.2%	±0.5%	85%
JM10B-48S	48V	0.25A	240mV	±2%	±0.2%	±0.5%	85%

## Ordering

JM10B-xxS- Single

## Specifications

Typical at 25°C, nominal line and 75% load, unless otherwise specified

### Input Specifications:

Input Voltage AC in ..... 90~264Vac  
DC in ..... 120~370Vdc  
Frequency ..... 47 to 63Hz  
Inrush Current ..... 20A max. @240Vac cold start  
..... 10A max. @120Vac cold start

### Output Specifications:

Total Rated Output Power ..... 6.6W/12W  
Minimum load ..... single ..... 0%

Line regulation ..... 0.2%  
Load regulation ..... 0.5/1%  
Transient recovery time .....  $V_i \text{ nom, } I \text{ nom} \rightarrow 0.5 I_{\text{nom}}$  ..... 1000us  
Ripple & noise ..... see model table

### General Specifications:

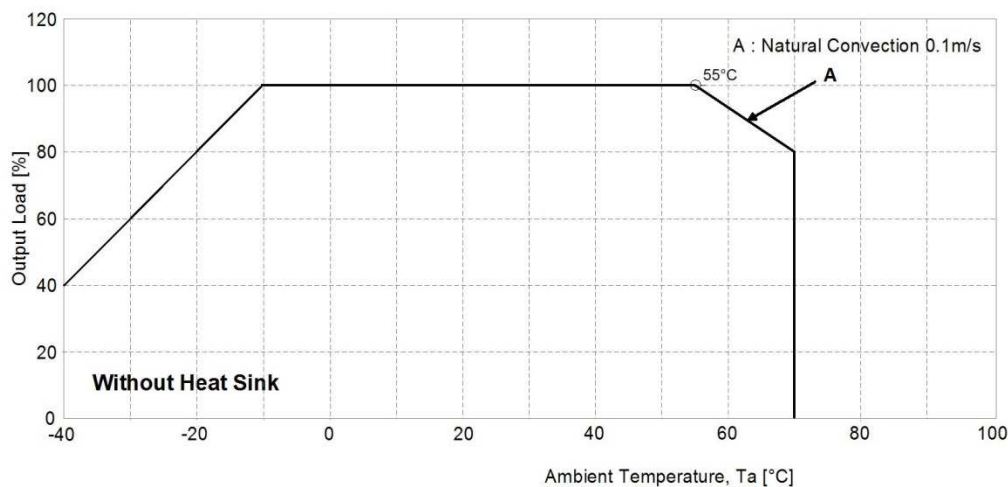
Switching Frequency ..... 65kHz Typical  
Isolation ..... Input to output ..... 4'000Vac  
Isolation resistance ..... 100M $\Omega$   
Operating Temperature ..... -40°C - 70°C ..... (see Derating Curve)  
Derating ..... +55°C to +70°C ..... -1.33%/°C  
Derating ..... -10°C to -40°C ..... -2%/°C  
Max. case temperature ..... +85°C  
Storage Temperature ..... -40°C - 105°C  
Humidity ..... 95% RH max. Non condensing  
Cooling ..... Natural Convection  
Dimensions ..... 2.00x1.00x0.925inches (50.8x25.4x23.5mm)  
Case material ..... UL 94V-0  
Weight ..... tbd

### NOTE:

1. To measure Rippel & Noise connect a 47uF electrolytic capacitor paralleled with a 0.47 ceramic capacitor across the output.  
BW = 20MHz.

## JM10B Series Derating Curve

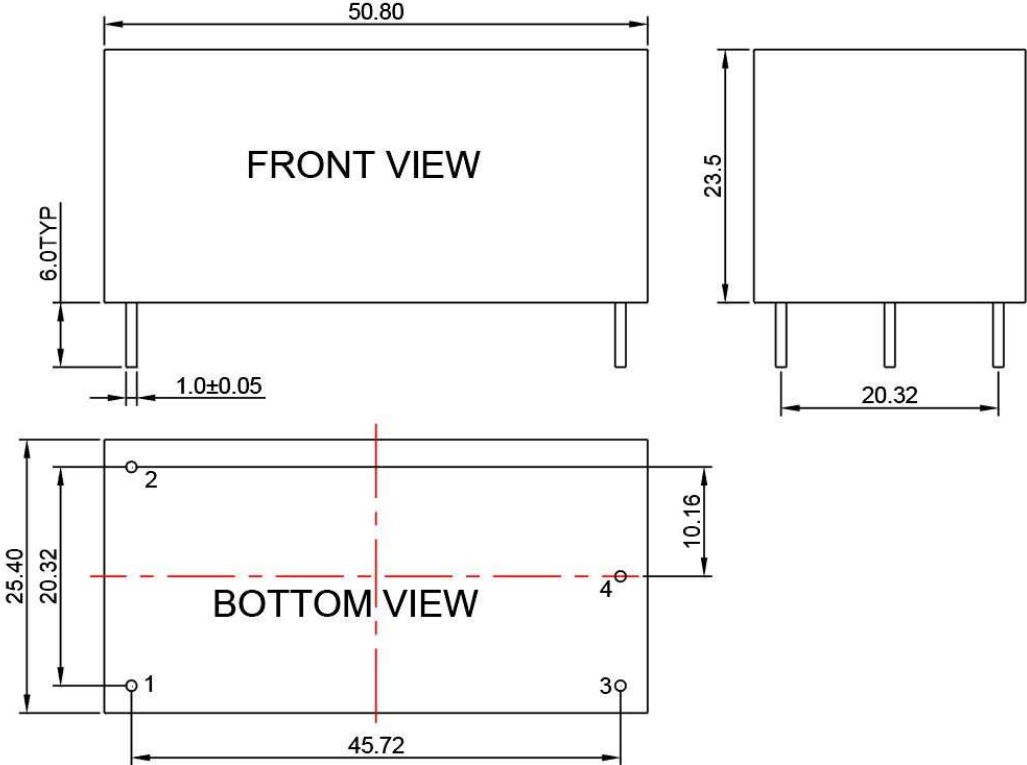
Output Power vs Ambient Temperature @ Natural Convection:



# JM10B Series Dimensions

Normal tolerance  $\pm 0.5$  mm,  
 NP = No pin, NC = Not connected, NA = Not available for electrical contact, do not connect

## Dimensions



## Pinning

	JM10B-xxS
1	ACN
2	ACL
3	+Vout
4	-Vout

Notice: All statements, technical information, and recommendations related to FABRIMEX's products are based on information believed to be reliable, but the accuracy or completeness thereof is not guaranteed. Before utilizing the product, the user should determine the suitability of the product for its intended use. Specifications can be changed any time without notice.

