



AC → DC POWER MODULE

RAM1005S SERIES

All the patents are held accountable counterfeiting.

Features



UL
E159228



Green Power

- Switching power module for PCB mountable
- Fully encapsulated plastic case
- The ultra-high efficiency ultra-small size
- Regulated output and low ripple and low noise
- Isolation class II
- No need for external EMI filter and output capacitors
- No load power consumption < 0.3W
- Comply with high efficiency power 80Plus criterion and 2010 energy conservation power ErP regulation (except 3.3V , 5V)
- 100% full load burn-in test
- 3 years warranty
- Into glue products. Dust and water resistant (can work in harsh)
- Output modify range: 3V~100VDC

DIMENSIONS: 40.5(L)*27.5(W)*21(H)mm
WEIGHTS: 35g

General specifications

INPUT

Input range 90~264VAC
120~380VDC
Input frequency 47~63Hz
Inrush current (25°C) 20A/110VAC
40A/220VAC
External Fuse (Recommend) 1.5~2.0A Slow blow type

OUTPUT

Hold-up time 15ms
Short protection Autorecovery
Over load protection Automatic power limited

Detail specifications

5 Watts

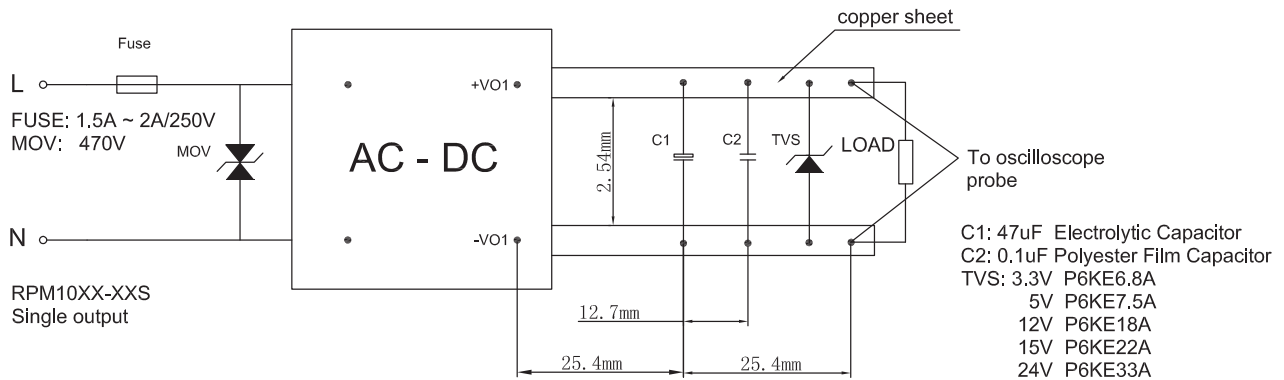
MODEL	O/P Volt	Load(Current) ¹			Ripple & Noise ⁴	Line REG. ²	Load REG. ³	Efficiency ⁵
		Min.	Rated	Max.				
RAM1005-3.3S	V : +3.3V	0A	1.25A	1.25A	70mV	±1%	±1%	75% Ref.
RAM1005-05S	V : +5V	0A	1A	1A	80mV	±1%	±1%	79% Ref.
RAM1005-12S	V : +12V	0A	0.42A	0.42A	120mV	±1%	±1%	83% Ref.
RAM1005-15S	V : +15V	0A	0.33A	0.33A	150mV	±1%	±1%	83% Ref.
RAM1005-24S	V : +24V	0A	0.23A	0.23A	240mV	±1%	±1%	85% Ref.

NOTE

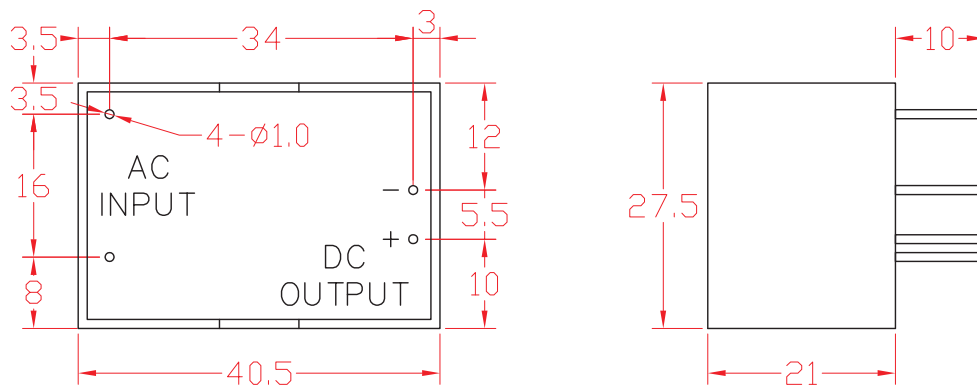
1. Each output can provide up to maximum load, but total load can not exceed rated output power.
2. Line regulation is measured from low line to high line at rated load.
3. Load regulation is measured from 20% to 100% of rated load at 220VAC input.
4. Ripple & Noise are measured with 20MHz oscilloscope at 220VAC with a 0.1uF/630V metal capacitor & a 47uF electrolytic capacitor parallel on the test point. The test setup diagram shows in next page.
5. Efficiency is measured at rated load and 220VAC input.
6. Hold-up time is measured at rated load and 220VAC input.
7. Reign Power reserve the right to change specifications at any time without notice.



Noise test & Connection diagram



Mechanical details



Bottom view

Side view

RAM1005-XXS
Single output

CE Standards

EN 55032,
EN 55035,
EN 61000-3-2, EN 61000-3-3,
(EN 61000-4-2,
EN 61000-4-3,
EN 61000-4-4,
EN 61000-4-5,
EN 61000-4-6,
EN 61000-4-8,
EN 61000-4-11)
LVD: EN 62368-1



UL 60950-1 APPROVED



CE

MARKING

Environments

Operating Temperature
Operating Humidity
Storage Temperature
Vibration

-40 ~ 70°C, Ambient
20 ~ 90% RH, No Condensing
-40 ~ 105°C, Ambient
5G, 10~500Hz, 3 axes