



AC → DC POWER MODULE

RAM1030S SERIES

All the patents are held accountable counterfeiting.

Features



UL®
E159228

CE

Green Power

- Switching power module for PCB mountable & standard 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 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: 55(L)*45(W)*21(H)mm
WEIGHTS: 95g

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

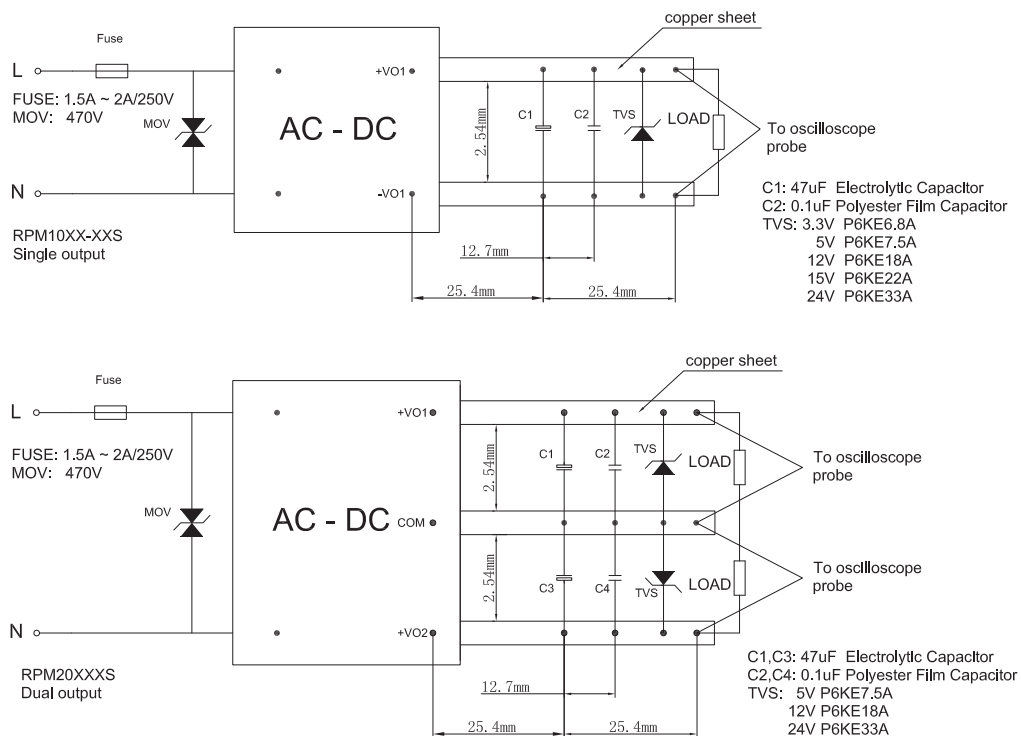
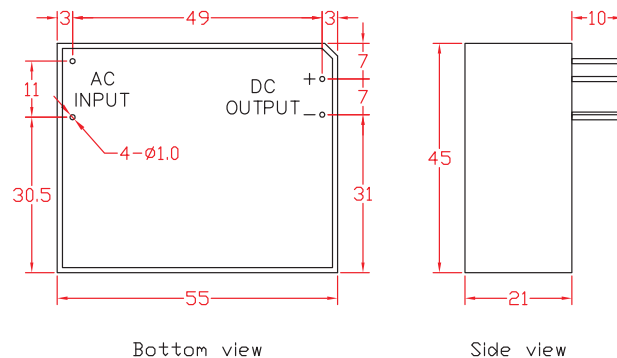
Detail specifications

25~30 Watts

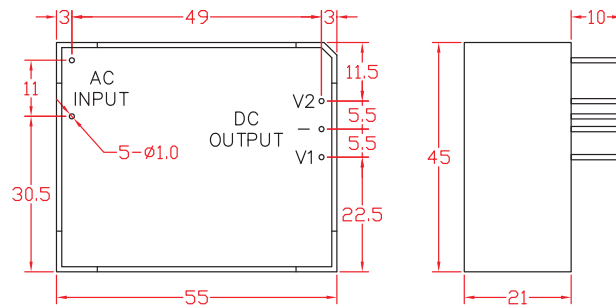
MODEL	O/P Volt	Load(Current)			Ripple & Noise ⁴	Line REG. ²	Load REG. ³	Efficiency ⁵
		Min.	Rated	Max.				
RAM1025-05S	V : +5V	0A	5A	5A	80mV	±1%	±1%	81% Ref.
RAM1030-12S	V : +12V	0A	2.5A	2.5A	120mV	±1%	±1%	83% Ref.
RAM1030-15S	V : +15V	0A	2A	2A	150mV	±1%	±1%	83% Ref.
RAM1030-24S	V : +24V	0A	1.25A	1.25A	240mV	±1%	±1%	88% Ref.
RAM1030-48S	V : +48V	0A	0.625A	0.625A	480mV	±1%	±1%	89% Ref.
RAM20301S	V1 : +5V	0A	3A	3A	80mV	±1%	±1%	83% Ref.
	V2 : +12V	0A	1.25A	1.25A	120mV	±5%	±5%	
RAM20302S	V1 : +5V	0A	3A	3A	80mV	±1%	±1%	83% Ref.
	V2 : +15V	0A	1A	1A	150mV	±5%	±5%	
RAM20303S	V1 : +5V	0A	3A	3A	80mV	±1%	±1%	83% Ref.
	V2 : +24V	0A	0.63A	0.63A	240mV	±5%	±5%	

**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. With ● are no UL safety approval.
6. Efficiency is measured at rated load and 220VAC input.
7. Hold-up time is measured at rated load and 220VAC input.
8. Reign Power reserve the right to change specifications at any time without notice.

Noise test & Connection diagram**Single Output Mechanical details**

PCB Mountable

**Dual Output Mechanical details**

Bottom view

Side view

PCB Mountable**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

Safety Standards**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