

J U I C E **G O O S E**™

RX100-RM



Hybrid AC Filter Technology

A new standard for rack mounted power protection.

The RX100-RM provides ultra clean power and protection against AC line surges and spikes as well as in-wall wiring faults. Hybrid Filter Technology reduces high frequency noise and high energy surges both on normal (line – neutral) and common (neutral – ground) mode paths.

Compare the RX Series performance to any other power conditioning device. Compare our high levels of line noise filtration and extremely low surge let through levels. In particular, compare performance on hot, neutral and ground paths. Now compare our price.

The Hybrid Filter design in the RX100-RM includes a differential transformer, lots of filtering capacitance and control circuitry providing protection from dangerous surges, high frequency interference, building wiring faults and over voltage. RX technology delivers performance enhancement and protection comparable to an isolation transformer – but at a fraction of the price and in a fraction of the space.

This Juice Goose power protection technology is particularly valuable because it works against common mode as well as normal mode events. While common mode surges and disturbances don't typically cause catastrophic damage, they can result in operating failures and improper performance of digital processing equipment.

Compared with the low operating voltage of processor logic, a power anomaly of even 1 or 2 volts on data lines or logic ground can cause problems. That's why the RX100-RM is designed to have a voltage surge let through of only 1/2 volt between neutral and ground.

The Hybrid Filter also protects against more dramatic events. Connected equipment is safe from surges up to 6,000 volts at 3,000 amps on hot, neutral and ground.

The sturdy, Tour Class™ chassis of the Juice Goose RX100-RM is built for an exceptionally long service life. It features a "unibody" construction - with the front, bottom and back formed from a single piece of magnetic shielding, cold rolled steel. The reinforced mounting brackets are attached to the chassis in eight places.

Eight AC outlets provide ample connection opportunity, including unswitched outlets on the front and back of the chassis. The twelve foot power cord enables use at a greater distance from power sources.

Compare all the advantages of the Juice Goose Hybrid Filter Technology: performance, features and price. The RX100-RM does a lot more for a lot less.

HOW RX SERIES TECHNOLOGY WORKS

| PERFORMANCE | |
|--|---------------------|
| TRANSIENT ENERGY ABSORPTION (JOULES) | 1020 |
| MAXIMUM APPLIED SURGE CURRENT (AMPS) | 3000 |
| MAXIMUM APPLIED SURGE PULSE VOLTAGE | 6000 |
| LET THROUGH SURGE VOLTAGE (VOLTS) | |
| N-G | 0.5 |
| L-N | 10 |
| COMMON MODE (N - G) INTERFERENCE FILTER (dB) | |
| 300kHz | 77 |
| 1 MHz | 80 |
| 10MHz | 80 |
| 30MHz | 80 |
| NORMAL MODE (L-N) INTERFERENCE FILTER (dB) | |
| 300kHz | 56 |
| 1 MHz | 60 |
| 10MHz | 60 |
| 30MHz | 60 |
| VOLTAGE | 120VAC, 60 Hz |
| MAXIMUM CURRENT LOAD | 15 AMPS |
| | PHYSICAL |
| POWER CORD LENGTH | 12 FEET |
| WEIGHT | 10 LBS |
| POWER CONNECTIONS | |
| PLUG | NEMA 5-15P |
| RECEPTACLE | NEMA 5-15R EIGHT |

Juice Goose RX Series products use a patented Hybrid Filter Technology to clean up both normal mode (between line and neutral) and common mode (between neutral and ground) noise without contaminating the ground line. Many popular power conditioners are less effective on normal mode and provide little or no protection from common mode interference. "Series mode" protection circuits are not designed to protect against common mode disturbances on the ground line.

The Hybrid Filter Technology includes components that act as a low pass filter which reduces high frequency interference. Other components absorb or divert high speed, high energy normal and common mode surges that can cause immediate or eventual damage to electronic components. Energy impulses as great as 6,000 volts are reduced to no more than 10 volts between hot and neutral and only 0.5 volts between neutral and ground.

The RX Series filter circuit also protects against structural wiring problems. Relays in the RX100-RM prevent operation in conditions of incorrect hot, neutral or ground wiring connection or in the event of dangerously high voltage.

If this unit is plugged into an outlet that is not properly wired - if hot, neutral and ground are not properly connected - power will not pass to the receptacles and a light on the front of the unit will indicate a wiring fault. Therefore, a functioning ground connection is required to operate the RX100-RM. This same safety measure functions when incoming voltage exceeds 155 volts. In this over voltage situation the unit will not pass power to connected equipment.



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For more information
Call 713.772.1404 or go to www.juicegoose.com