



# RX100

## 15 Amp or 20 Amp



RX100-15  
Fifteen Amp

## Hybrid Surge Protection Technology

The RX100 provides protection against AC power surges as well as high frequency line noise and external wiring faults. Hybrid Protection Technology limits surges both on normal mode (line to neutral) and common mode (ground line) paths.

Compare the RX Series performance to any other power conditioning device. Compare our extremely low surge let through levels and very thorough noise filtration. In particular, compare how RX Series protects and cleans the ground line.

A single protection component is typically not enough. RX Series Hybrid Surge Protection includes a differential transformer, fast acting metal oxide varistors, lots of filtering capacitance and control circuitry that can shut off power in the event of 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 ground line as well as line to neutral events.

While ground line 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 is designed to have a voltage surge let through of only 1/2 volt on the ground line.

The Hybrid Circuit 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 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 product is available in either fifteen amp or twenty amp rated models. Note: the 20 amp model has a NEMA 5-20P plug that requires a 20 amp rated receptacle.

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

## SPECIFICATION

TRANSIENT ENERGY ABSORPTION (JOULES)	1020
MAXIMUM APPLIED SURGE CURRENT (AMPS)	3000
MAXIMUM APPLIED SURGE PULSE (VOLTS)	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
OPERATING VOLTAGE, FREQUENCY	120VAC, 60 Hz
MAXIMUM CURRENT LOAD (AMPS)	15 or 20
POWER CORD LENGTH (FEET)	7
WEIGHT (LBS)	10
RX100-15	
PLUG	NEMA 5-15P
RECEPTACLE	NEMA 5-15R (8)
RX100-20	
PLUG (Requires a 20 amp receptacle)	NEMA 5-20P
RECEPTACLE	NEMA 5-20R (8)

## PERFORMANCE

Published test results show Juice Goose RX Series technology is effective and superior in preventing AC line surges from reaching connected equipment.

The Hybrid Technology includes 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.

Even small levels of ground line interference can prevent proper performance of digital processors which use ground as a reference for logic voltage. RX Series attention to this requirement is almost unique among surge protection devices.

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 ground line disturbances.

The RX Series circuit also protects against structural wiring problems. Relays 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. 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.



RX100-20  
Twenty Amp

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Call 713.772.1404 or go to [www.juicegoose.com](http://www.juicegoose.com)