



RX 30 FILTERCORD™



Ground Line Protection

Juice Goose RX Series power protection technology is particularly valuable because it works against ground line (common mode) as well as hot to neutral (normal mode) 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 RX Series products limit ground line voltage surges to only 1/2 volt.

RX Series products also protect 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 RX Series design includes a differential transformer, lots of filtering capacitance and surge diverting components. Control circuitry provides protection from external wiring faults including hot-neutral reversal, missing ground 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.

Video Performance

Improve performance of HD monitors and projectors while protecting your valuable investment. When high frequency interference reaches your HD image through

the power cord, image quality is lost along with much of the reason for going HD in the first place. At the same time, dangerous high energy events you may or may not notice can shorten the life of your video machine.

Convenience

The Juice Goose RX 30 is built into the middle of a power cord ("Filtercord") to provide a convenient, easy to install package for use with non racked equipment such as digital signage monitors, media players and projectors. It can also be used as added protection for a rack mounted power strip. The RX 30 features a three foot power source cable with a right angle plug to lie flat against a wall.

The power outlet side of the RX 30 includes three receptacles placed 90 degrees from each other to accommodate multiple components including AC adapters. This design allows for better filter module placement and connection with hard to reach AC outlets.

HOW RX SERIES TECHNOLOGY WORKS

RX 30 Filtercord (TM)	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	10 AMPS
	PHYSICAL
WEIGHT	3 LBS
POWER CORD LENGTH (INPUT)	3 FEET
PLUG (RIGHT ANGLE)	NEMA 5-15P
RECEPTACLES (NEMA 5-15R)	THREE

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 RX Series unit 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 any RX Series product. This same safety measure functions when incoming voltage exceeds 150 volts. In this over voltage situation the unit will not pass power to connected equipment.



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