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Rackpower 100-RX™ With RX Series Surge Protection and Filtration



RP100-15RX

Maybe the best combination of features and performance for professional grade rack mount power distribution.

Rackpower 100-RX combines clean, protected power with professional grade power distribution features for recording, live sound and commercial AV installations, including digital metering of power line voltage and amperage and USB power ports on the front and back of the chassis.

RX Series Protection - Tested and proven circuitry limits voltage surge energy between line and neutral and also on the ground. The RP-100RX provides protection against AC power surges as well as high frequency line noise and external wiring faults. Hybrid protection technology limits surges on both normal mode (line to neutral) and common mode (ground line) paths.

Power Meter - The two function meter reports in easy to read LED numerals the status of your power supply and consumption. Toggle between volts and amps with a convenient push button on the front of the chassis. Voltage and amperage are measured to the nearest 0.10 unit. Amperage is measured in a range from 0.20 to 25.0 amps.

USB Ports - Usable for convenient LED rack lighting or to charge accessories, one USB port is provided on the front and one on the back of the chassis.

AC Power Receptacles - One AC outlet is located on the front. Nine are on the back. The rear outlets are rotated to accommodate wall warts and include extra generous spacing between four of them.

Tour Class (™) Chassis - This professional grade, seven inch deep enclosure is formed from a single piece of cold rolled steel. Reinforced brackets and a flush fitting top complete a package that's been used to mount other products weighing over 200 pounds.

DETAIL SPECIFICATIONS

Chassis.....16 gauge “unibody” steel with 11 gauge rack mount brackets

Dimensions.....1.75”H x19”W x 7”D

Weight.....12 lbs

Current Overload Protection.....breaker/power switch on the front of the chassis
 RP100-15RX.....15 amps with a technical current rating of 12 amps
 RP100-20RX.....20 amps with a technical current rating of 16 amps

Power Input.....Seven foot (7’), three conductor power cord
 RP100-15RX.....14/3 SJT with NEMA 5-15P
 RP100-20RX.....12/3 SJT with NEMA 5-20P

Power Output (Rotated to fit AC adapters) (All switched)

FrontOne NEMA 5/15R (15 amp)
 Rear RP100-15RX.....Nine NEMA 5/15R (15 amp)
 Rear RP100-20RX.....Eight NEMA5-15R (15 amp), One NEMA5-20R (20 amp)

Input Voltage.....120 VAC @ 60Hz

Monitor Features

Voltage.....Nominal 120 VAC scale. Reports to nearest 0.10 volts
 Amperage.....From 0.25 to 25.0 amps. Reports to nearest 0.10 amps
 Surge Protection.....LED indicator on front panel

Warranty.....Three years



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Tested and Proven RX Series Protection

Juice Goose RX Series circuitry was tested side-by-side with another leading AV industry surge technology. Through three methodologies and multiple tests, RX Series was shown to provide superior performance between line and neutral and on the ground. Published test results are available at www.juicegoose.com/products/rx-series.

Ground Line Surge Protection

Hybrid protection technology limits surges both on normal mode (line to neutral) and common mode (ground line) paths. A single protection component is not enough. RX Series technology includes a differential transformer, fast acting metal oxide varistors and lots of filtering capacitance.

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 protection is designed to have a voltage surge let through of only one-half volt (0.5V) on the ground line.

Of course, RX circuitry also protects against more dramatic events. Connected equipment is safe from surges up to 6,000 volts at 3,000 amps between line and neutral as those surges are limited to an industry benchmark of ten volts (10.0V).

Line Filtration

High frequency EMI and RFI line interference from light dimmers, electric motors and other sources can ride on top of a power line's standard 60Hz sine wave. RX technology reduces that interference comparable to an isolation transformer at a fraction of the cost and in a fraction of the space. The following table lists some of the performance specifications for RX Series line filtration.

External Wiring Faults

Some power line hazards are manmade. Improperly wired power circuits can cause equipment failure or damage. RX Series control circuitry will not pass power in the event of facility wiring fault or over voltage.

RX Series Performance

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

Other RX Series Products

CQ-15RX

Rack mounted sequencer is part of the CQ Series of power control products for AV.



IP-15RX

Web based, rack mounted power control for power cycling and energy savings. Works with Q-Sys, Crestron and similar AV platforms



IP-50RX

Web based power control fits in a slim chassis for power cycling and energy savings. Works with Q-Sys, Crestron and similar AV platforms.



RX-30

Filtercord provides the same protection as all RX Series models. Ten amp capacity.



RX-50

Slim line power distribution for non racked AV gear.



RX-100

Rack mounted power distribution with eight outlets.

