CONDOR

350 WATTS
POWER FACTOR CORRECTED
MULTIPLE OUTPUT, HOT SWAP

RMX-350

Featuring:

- Diode isolated outputs for hot swap
- "Zero wire" slope program current sharing for redundancy
- Self-aligning connector with solid metal machined contacts
- Universal AC input
- 0.99 typical power factor
- Dual converter design eliminates interaction between logic and auxiliary outputs
- Low ripple and noise on all outputs
- DC power good and AC power fail signals
- True remote inhibit
- Monotonic turn-on and turn-off

STANDARD RMX SERIES

MODEL	PWR	OUTPUT #1	OUTPUT #2	OUTPUT #3	OUTPUT #4
RMX-353-0512	350	+5V @ 50A	+12V @ 8/12A pk	-12V @ 4A	
RMX-354-1205	350	+5V @ 50A	+12V @ 8/12A pk	-12V @ 4A	5.2V @ 5A
RMX-354-1212	350	+5V @ 50A	+12V @ 8/12A pk	-12V @ 4A	12V @ 5A
RMX-354-1224	350	+5V @ 50A	+12V @ 8/12A pk	-12V @ 4A	24V @ 3A
RMX-354-1512	350	+5V @ 50A	+15V @ 4A	-15V @ 4A	12V @ 5A
RMX-354-1524	350	+5V @ 50A	+15V @ 4A	-15V @ 4A	24V @ 3A

Maximum power from outputs #2, #3 and #4 to be less than 170W

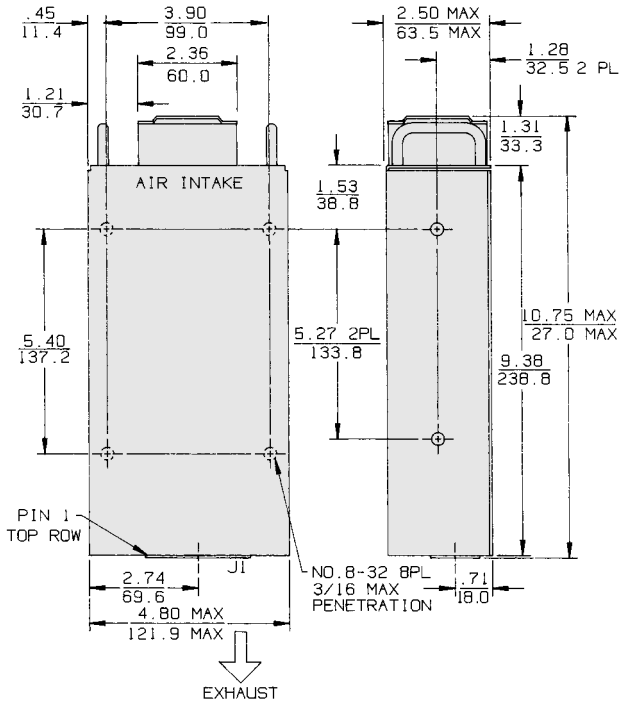
RMX Series 350-watt power supplies provide new and increased flexibility for configuring redundant "hot swappable" power systems using a standard product. The RMX-350 Series eliminates the need for external sheet metal sleds, OR-ing diodes, and a high current interface. These switching power supplies are power factor corrected, multiple-output units which contain built-in Schottky OR-ing diodes and a high current connector interface.

SEE RMX 350 FOR DC INPUT EQUIVALENT

Condor D.C. Power Supplies, Inc., A subsidiary of SL Industries, Inc. 805-486-4565 • (800) 235-5929 Fax: (805) 487-8911 http://www.condorpower.com

350 WATTS
10.75"x 4.8"x 2.5"
RMX-350

RMX-350
3.5 lbs - 1.6 kgs



Dimensions: Inches
Millimeters

SPECIFICATIONS: ALL MODELS

INPUT
AC Input: 90-264 Vac continuous range, 47 to 63 Hz. Internally fused for 7A.
Power Factor: 0.99 typical at full load. Meets EN61000-3-2.
Inrush: Cold start AC current is less than 30 A at 115 Vac and 60 A at 230 Vac. Limited by thermistor.
Brownout Protection: Holds regulation to 85 Vac.
Holdup Time: 20 ms minimum after removal of power at full load.
Efficiency: 70% typical.
AC Power Fail: Provides TTL "0" 5 ms before output voltage goes out of regulation band upon loss of AC power.

OUTPUT
Adjustability: Outputs #1 and 2, and 4 factory adjusted to nominal ±0.2%. Output #3 tracks #2; initial accuracy ±3%.
Line & Load Reg: Outputs #1, 2, and 4 hold ±2% over AC input range and 0 to 100% load change (preprogrammed slope). Output #3 requires 20% minimum load on outputs #2 and 3 to hold ±5%.
Ripple & Noise: 1% p-p or 100 mV, whichever is greater.
Remote Sense (Output #1): Compensates for 250 mV total line drop. Preprogrammed slope remains under ±3 worst case. Open sense lead protection.
Temperature Coefficient (Outputs #1, 2, and 4): 0.03% per degree C.
Stability: 0.1% over 8 hours after 30 minutes warm-up.
Transient Response (Outputs #1, 2, and 4): Output voltage returns to within 1% in less than 500 µs for a 50% load change (measured with rise time and fall time of 200µs). Peak transient does not exceed 5%.
Overload Protection: All outputs are protected against overload and short circuit. Automatic recovery upon removal of fault.
Overvoltage Protection (Outputs #1 and 2): Protects load against power supply induced over-voltage. Trip point is factory set so that output voltage cannot exceed 130% of nominal.
Peak Output Current: Dual current ratings define continuous and peak currents. The peak current shown can be delivered for a maximum period of 30 seconds.
Remote Enable: Contact closure to common turns on DC outputs (recessed pin for "make last, break first" connection).
Remote Inhibit: Contact closure to the negative sense line or a TTL level "0" turns off DC outputs.
DC Power Good: Provides a TTL "1" open collector when output #1 is above 4.6 V nominal.
Redundancy: Built-in OR-ing diodes, slope program current sharing on all outputs, and self aligning connector provide "hot swap" and "N+1" capabilities. Current sharing remains within 10% of the unit's full output rating while units are in thermal equilibrium.
Reverse Voltage: Protected against reverse voltage up to supply current rating.

ENVIRONMENTAL
Thermal Protection: Shuts down power supply if overheated. Automatic recovery.
Temperature Range: 0° to 50°C at full ratings.
Safety Agencies: Most models are approved to UL1950; CSA 22.2 #234; IEC 950 and TÜV EN60950, Class 1 SELV., CE 72/23/EEC/93/68EEC (low voltage directive).
Conducted RFI: Meets FCC Part 15, Subpart J, Class A; EN55022 Class B; CISPR 22 Class B.
Output Isolation: Isolated from ground 50 Vdc.
Cooling: Self-cooled by internal ball-bearing fan.

OPTIONS

Consult factory for available options.

AC INPUT (90-264 VAC Continuous Range)

FUNCTION	115 VAC	230 VAC	CONNECTOR
J1-21	Line	Line 1	See below
J1-23	Neutral	Line 2	
J1-25	Safety Ground	Safety Ground	

DC OUTPUT

FUNCTION	LOCATION	NOTES	CONNECTOR
Output #1	J1- 10, 20, 30	Main Output	Positronics # PLC30M400A1-168.3 Mates with panel mounted PLC30F1000 connector using crimp contacts FC114N2 (14 to 16 AWG)
	J1 - 9, 19, 29	Rtn (Common)	
Output #2	J1-2		
	J1-3	Rtn (Common)	
Output #3	J1-4		
	J1-3	Rtn (Common)	
Output #4	J1-5	(+) Floating Output	
	J1-6	(-) Floating Output	

STATUS AND CONTROL

FUNCTION	LOCATION	NOTES	CONNECTOR
Remote Sense	J1-18	Output #1 Sense	See above
	J1-8	Output #1 Sense Rtn	
DC Power Good	J1-7	Reference to Common when #1 Sense Rtn is terminated	
Enable	J1-16	Reference to Common	
Inhibit	J1-27		
AC Power Fail	J1-17		