

350 W, AC and DC Multiple Output Hot Swap Power Supplies

Features

- 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 or 48 VDC Input
- Dual Converter Design Eliminates Interaction Between Logic and Auxiliary Outputs

- 0.99 Typical Power Factor
- Low Ripple and Noise on All Outputs
- DC Power Good and AC Power Fail Signals
- True Remote Inhibit
- Monotonic Turn-On and Turn-Off

Specifications

Overall Dimensions: 10.75" x 4.8" x 2.5".

Adjustability: Outputs 1 and 2, and 4 factory adjusted to nominal $\pm 0.2\%$, output 3 tracks #2, initial accuracy $\pm 3\%$.

Line and Load Reg: Outputs 1, 2 and 4 hold $\pm 2\%$ over AC input range and 0 to 100% load change (programmed slope). Output #3 requires 20% minimum load on Outputs 2 and 3 to hold $\pm 5\%$.

Ripple and 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 $\pm 3\%$ 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 136% of nominal.

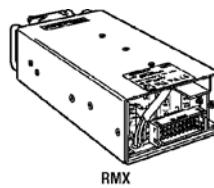
TMX and RMX series power supplies can be operated in redundant configurations to achieve AC operation with battery backup capability.

RMX Series — 350 W, AC Multiple Output Power Supplies

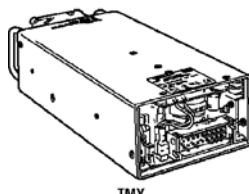
- 350 W
- Power Factor Corrected
- Multiple Output, Hot Swappable

RMX series 350 W power supplies provide new and increased flexibility for configuring connector interface. 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. **Weight:** 3.5 lbs. **AC Input:** 90-264 VAC continuous range, 47 to 63 Hz. Internally fused for 7 A. **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.

Stock No.	Mfr.'s Type	Power (Watts)	Output 1	Output 2	Output 3	Output 4	EACH	
							1-4	5-24
744-8451	RMX-353-0512	350	+5 V @ 50 A	+12 V @ 8/12 A pk	-12 V @ 4 A	—	571.20	
744-8453	RMX-354-1205	350	+5 V @ 50 A	+12 V @ 8/12 A pk	-12 V @ 4 A	5.2 V @ 5 A	571.20	
744-8455	RMX-354-1212	350	+5 V @ 50 A	+12 V @ 8/12 A pk	-12 V @ 4 A	12.0 V @ 5 A	571.20	
744-8457	RMX-354-1224	350	+5 V @ 50 A	+12 V @ 8/12 A pk	-12 V @ 4 A	24.0 V @ 3 A	571.20	
744-8459	RMX-354-1512	350	+5 V @ 50 A	+15 V @ 4 A	-15 V @ 4 A	12.0 V @ 5 A	571.20	
744-8461	RMX-354-1524	350	+5 V @ 50 A	+15 V @ 4 A	-15 V @ 4 A	24.0 V @ 3 A	571.20	



RMX



TMX

RMX-350 AC Input (90-264 VAC Continuous Range)

Function	115 VAC	230 VAC	Connector
J1-21	Line	Line 1	See DC Output
J1-23	Neutral	Line 2	Safety Ground
J1-25	—	—	—

TMX-350 DC Input (40-60 VAC)

Function	48 VDC	Connector
J1-22	+48 VDC	See DC Output
J1-24	-48 VDC	Safety Ground
J1-11	—	—

DC Output

Function	Location	Notes	Connector
Output 1	J1-10, 20, 30 J1-9, 19, 29	Main Output Rtn (Common)	Positronics® PLC30M400A1-168.3
Output 2	J1-2 J1-3	Rtn (Common)	Mates with panel Mounted
Output 3	J1-4 J1-3	Rtn (Common)	PLC30F1000 Connector using
Output 4	J1-5 J1-6	(+) Floating Output (-) Floating Output	Crimp contacts FC114N2 (14 to 16 AWG)

Status and Control

Function	Location	Notes	Connector
Remote Sense	J1-18	Output 1 Sense	See DC Output
Remote Sense	J1-8	Output 1 Sense Rtn	
DC Power Good	J1-7	Reference to Common when Output 1 Sense Rtn is terminated	
Enable	J1-16	Reference to Common	
Inhibit	J1-27	Reference to Common	
AC Power Fail	J1-17	Reference to Common	

500 Watts

Stock No.	Mfr.'s Type	Volts	Watts	Output Rating	Power Out	Dimensions Inches	EACH	
							1-4	5-24
744-0795	SPF-500-12	90-264	500	12 V @ 42.0 A	500	11.00 x 5 x 2.50	531.31	495.00
744-0835	SPF-500-15	90-264	500	15 V @ 34.0 A	500	11.00 x 5 x 2.50	531.31	495.00
744-0875	SPF-500-24	90-264	500	24 V @ 21.0 A	500	11.00 x 5 x 2.50	531.31	495.00
744-0910	SPF-500-28	90-264	500	28 V @ 18.0 A	500	11.00 x 5 x 2.50	531.31	495.00
744-0955	SPF-500-48	90-264	500	48 V @ 10.4 A	500	11.00 x 5 x 2.50	531.31	495.00

750 Watts

Stock No.	Mfr.'s Type	Volts	Watts	Output Rating	Power Out	Dimensions Inches	1-4	5-24
744-0800	SPF-750-12	90-264	750	12 V @ 62.0 A	750	12.92 x 5 x 2.50	855.58	796.17
744-0840	SPF-750-15	90-264	750	15 V @ 50.0 A	750	12.92 x 5 x 2.50	855.58	796.17
744-0880	SPF-750-24	90-264	750	24 V @ 31.0 A	750	12.92 x 5 x 2.50	855.58	796.17
744-0915	SPF-750-28	90-264	750	28 V @ 27.0 A	750	12.92 x 5 x 2.50	855.58	796.17
744-0960	SPF-750-48	90-264	750	48 V @ 16.0 A	750	12.92 x 5 x 2.50	855.58	796.17

1000 Watts

Stock No.	Mfr.'s Type	Volts	Watts	Output Rating	Power Out	Dimensions Inches	1-4	5-24
744-0885	SPF-1000-24	90-264	1000	24 V @ 42.0 A	1000	12.00 x 8 x 3.38	1208.78	1134.92
744-0920	SPF-1000-28	90-264	1000	28 V @ 36.0 A	1000	12.00 x 8 x 3.38	1208.78	1135.00
744-0965	SPF-1000-48	90-264	1000	48 V @ 21.0 A	1000	12.00 x 8 x 3.38	1208.78	1135.00

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