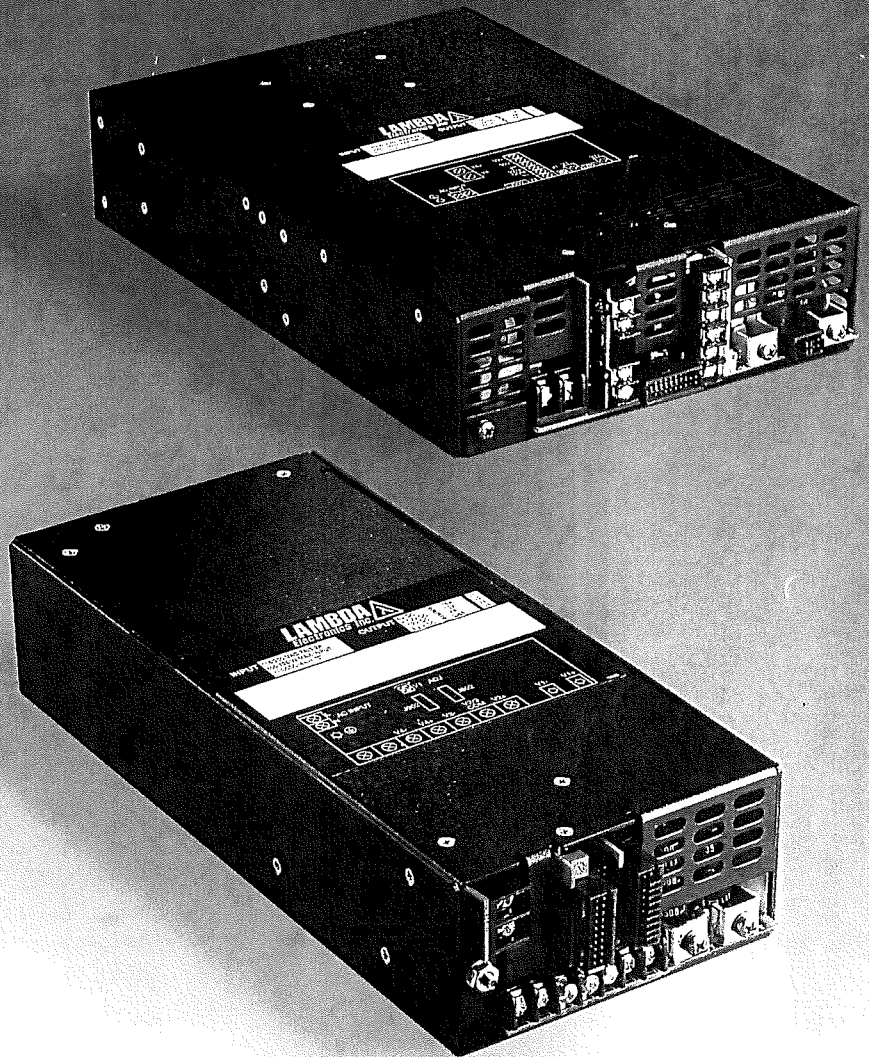
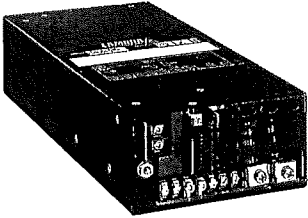


# The RP Series

CE/EMC-Compliant Power Supplies



**LAMBDA** 



The RP series represents the first line of standard power supplies which complies with the EMC directive for CE marking and offers a high power, adjustable (3.0 to 5.75V) main output combined with higher powered 3.3V and 5.0V auxiliary outputs. Additional 3.3, 5, 12, 24, and 48V outputs may be added.

By facilitating total system power solutions in a single unit, the RP series minimizes requirements for manufacturers of computers and computer-controlled equipment to utilize multiple and/or custom power supplies. The RP Series conserves space, design time and manufacturing costs.

**CE-EMC Compliance** The RP Series represents the first power supply which complies with both the LVD and the EMC Directive. Radiated and conducted emissions compliance helps simplify the system designers job by significantly reducing power supply emissions and ensures worldwide acceptance of the final system.

**Computer, Telecom and Industrial specific output voltage offering** Every model of the RP Series offers a triple, quad and pent output product, each with a wide range, adjustable main output from 3.0V to 5.75V. In addition, the RP series also offers a 3.3V, 5V,  $\pm 12V$ , 24V and 48V auxiliary output, in the same package, to accommodate all peripheral and drive requirements within your system. This feature makes the RP Series the ideal power solution for all microprocessor-based applications.

**Higher powered outputs** Increased output power on the 3.3V and 5V main and auxiliary outputs provides the system designer with a power supply which is capable of handling increased power requirements for logic, memory, card power and peripheral functions.

**Lower Profile** In order to provide optimal space allocation, the RP series has increased density and minimized package size for the 500, 750 and 1000W models to a 2.5" height.

**85-265 VAC Wide Range Input** Provides the ultimate in system flexibility and makes the RP series ideal for worldwide use.

**Worldwide Agency Approvals** UL1950, CSA234M90, EN60950, EN55024 and the "CE" mark ensure worldwide acceptability and conformance guarantees.

**Power Factor Correction** Active power factor correction circuitry ensures compliance to IEC 555-2 while improving input power quality, line regulation, AC noise immunity and holdup time. These key features promote greater system performance and reliability worldwide.

#### **Multiple Product Options**

- VME Signals (AC fail, system reset and reset per IEEE-1014).
- Current share (all outputs) with Overtemperature signal.
- Output Sequencing.
- Overcurrent protection with auto-restart.

Each option is designed to tailor the RP to your specific requirement and offer a complete power solution within one box.

**System Interface Signals** Fan fail, AC fail, DC good, remote on/off, OC protection and Remote Sense are included as standard features ensuring fail safe system operation.

**High Reliability** MTBF >150,000 hours per BELLCORE method TR-TSY-000332.

**"In-Stock" Availability** Lambda's RP Series is available for one day delivery from stock, enabling system integrators to deliver their product quickly.

<b>Input Voltage Range</b> . . . . .	85 to 265VAC (wide range), 125VDC ±10%.
<b>Power Factor Correction</b> . . . . .	0.99 typical per EN60555-2, EN61000-3-2.
<b>Output Voltage Adj Range</b> . . . . .	Output # 1*: 3.0V to 5.75V. Output #'s 2, 3, 4 & 5: fixed. RP0530 (3.0V to 4.5V adj.) RP0550 (4.5V to 5.75V adj.)
<b>Output Ripple</b> . . . . .	100mV or 1.0% of Vout max. pk-pk.
<b>Cross Regulation (mV)</b> . . . . .	5% with a 10% min. load on output # 1 for RP0500 Series, 5% on all others.
<b>Total Regulation</b> . . . . .	RP0500 – 1% on all outputs with a minimum of 10% preload on output #1. RP0750 & RP1000– 1% on output #1, 5% on outputs # 2, 3, 4 & 5.
<b>Preload</b> . . . . .	RP0500 – 10% on the main output. RP0750/RP1000 – none required.
<b>Isolation</b> . . . . .	Output 4&5 to be isolated from outputs 1,2,& 3. Outputs 1, 2, & 3 can share a common return. Input/Chassis 1500Vrms. Input/Output 3000Vrms. Output/Chassis 100Vrms.
<b>Hold-up Time</b> . . . . .	20mSec on main output from 120VAC, 60 Hz.
<b>MTBF</b> . . . . .	150,000 hours per Bellcore method TR-TYS-000332.
<b>Dynamic Load Response</b> . . . . .	10% V(out) deviation on all outputs for step load changes of 25%; Outputs will recover within 2% of V(nom) within 1.0 mSec of load step.
<b>Turn-on Time</b> . . . . .	1.5 Second maximum.
<b>EMI</b> . . . . .	CONDUCTED: EN55022 Curve B, FCC20780 Class B, CISPR 22 (class B). RADIATED: EN55022 Curve A, CISPR 22 Group 1 (class A).
<b>ESD Immunity</b> . . . . .	EN61000-4-5, IEC1000-4-2, IEC801-2 (level 3).
<b>Operating Temp Range</b> . . . . .	0 to 70°C, full power to 50°C; derate linearly from 50°C to 50% power at 70°C.
<b>Storage Temperature Range</b> . . . . .	-40°C to +85°C.
<b>Temperature Coefficient</b> . . . . .	0.05%/°C.
<b>Efficiency</b> . . . . .	71% @115Vac; 75%@230VAC.
<b>Inrush Current</b> . . . . .	50A at 25 deg. C cold start @ 220VAC.
<b>Input Surge Protection</b> . . . . .	EN61000-4-5, IEC1000-5, IEC801-5, IEEE C62.41 (Category A2) – category A3 optional.
<b>Input Line Transient</b> . . . . .	EN61000-4-4, IEC1000-4-4, IEC801-4.
<b>Overload Protection Electrical</b> . . . . .	Shutdown o/p #1, 1 sec delay (standard). Foldback on o/p 2, 3 & 4 with reset after 10 sec on o/p #1 only (optional).
<b>Overvoltage Protection</b> . . . . .	OVP on all outputs. Input power must be recycled to resume normal operation after shutdown.
<b>Remote On/Off</b> . . . . .	Active high (open circuit) to enable; Contact closure on -S to output #1 to shutdown.
<b>AC Input Fail Signal</b> . . . . .	Conductance good signal; Secondary referenced, Open collector signal = Active.
<b>DC Output Good Signal</b> . . . . .	Conductance good signal on main output; Secondary referenced, Open collector signal = Good.
<b>Fan Fail Detect</b> . . . . .	Unit senses fan failure or locked rotor and activates output shutdown providing secondary referenced open conductance signal. (Standard).
<b>Isolation</b> . . . . .	Input - Output: 3000V RMS. Input - Chassis: 1500V RMS. Output - Chassis: 1000V RMS.
<b>Safety Agency Approval</b> . . . . .	UL1950, CSA234M90, EN55024, CE Mark.
<b>Warranty</b> . . . . .	1 year warranty, parts and labor.

POWER(W)	OUTPUT 1	OUTPUT 2	OUTPUT 3	OUTPUT 4	OUTPUT 5	MODEL
<b>Triple Outputs</b>						
500	3V@75A	+12V@12A	-12V@4A	–	–	RP0530-3AH-Z
500	5V@75A	+12V@12A	-12V@4A	–	–	RP0550-3AH-Z
750	5V@110A	+12V@18A	-12V@7A	–	–	RP0750-3AH-Z
1000	5V@150A	+12V@24A	-12V@10A	–	–	RP1000-3AH-Z
<b>Quad Outputs</b>						
500	3V@75A	+12V@12A	-12V@4A	3.3V@20A	–	RP0530-4AH-Z
500	5V@75A	+12V@12A	-12V@4A	3.3V@20A	–	RP0550-4AH-Z
500	3V@75A	+12V@12A	-12V@4A	5.2V@10A	–	RP0530-4BH-Z
500	5V@75A	+12V@12A	-12V@4A	5.2V@10A	–	RP0550-4BH-Z
500	3V@75A	+12V@12A	-12V@4A	12V@10A	–	RP0530-4CH-Z
500	5V@75A	+12V@12A	-12V@4A	12V@10A	–	RP0550-4CH-Z
500	3V@75A	+12V@12A	-12V@4A	24V@7A	–	RP0530-4DH-Z
500	5V@75A	+12V@12A	-12V@4A	24V@7A	–	RP0550-4DH-Z
500	3V@75A	+12V@12A	-12V@4A	48V@3A	–	RP0530-4EH-Z
500	5V@75A	+12V@12A	-12V@4A	48V@3A	–	RP0550-4EH-Z
750	5V@110A	+12V@18A	-12V@7A	3.3V@30A	–	RP0750-4AH-Z
750	5V@110A	+12V@18A	-12V@7A	5.2V@15A	–	RP0750-4BH-Z
750	5V@110A	+12V@18A	-12V@7A	12V@13A	–	RP0750-4CH-Z
750	5V@110A	+12V@18A	-12V@7A	24V@8A	–	RP0750-4DH-Z
750	5V@110A	+12V@18A	-12V@7A	48V@4A	–	RP0750-4EH-Z
1000	5V@150A	+12V@24A	-12V@10A	3.3V@40A	–	RP1000-4AH-Z
1000	5V@150A	+12V@24A	-12V@10A	5.2V@20A	–	RP1000-4BH-Z
1000	5V@150A	+12V@24A	-12V@10A	12V@16A	–	RP1000-4CH-Z
1000	5V@150A	+12V@24A	-12V@10A	24V@8A	–	RP1000-4DH-Z
1000	5V@150A	+12V@24A	-12V@10A	48V@4A	–	RP1000-4EH-Z
<b>Pent Outputs</b>						
500	3V@75A	+12V@12A	-12V@4A	3.3V@20A	5.2V@5A	RP0530-5AJ-Z
500	5V@75A	+12V@12A	-12V@4A	3.3V@20A	5.2V@5A	RP0550-5AJ-Z
500	3V@75A	+12V@12A	-12V@4A	3.3V@20A	12V@2.5A	RP0530-5AK-Z
500	5V@75A	+12V@12A	-12V@4A	3.3V@20A	12V@2.5A	RP0550-5AK-Z
500	3V@75A	+12V@12A	-12V@4A	5.2V@10A	5.2V@5A	RP0530-5BJ-Z
500	5V@75A	+12V@12A	-12V@4A	5.2V@10A	5.2V@5A	RP0550-5BJ-Z
500	3V@75A	+12V@12A	-12V@4A	5.2V@10A	12V@2.5A	RP0530-5BK-Z
500	5V@75A	+12V@12A	-12V@4A	5.2V@10A	12V@2.5A	RP0550-5BK-Z
500	3V@75A	+12V@12A	-12V@4A	12V@10A	5.2V@5A	RP0530-5CJ-Z
500	5V@75A	+12V@12A	-12V@4A	12V@10A	5.2V@5A	RP0550-5CJ-Z
500	3V@75A	+12V@12A	-12V@4A	12V@10A	12V@2.5A	RP0530-5CK-Z
500	5V@75A	+12V@12A	-12V@4A	12V@10A	12V@2.5A	RP0550-5CK-Z
500	3V@75A	+12V@12A	-12V@4A	24V@7A	5.2V@5A	RP0530-5DJ-Z
500	5V@75A	+12V@12A	-12V@4A	24V@7A	5.2V@5A	RP0550-5DJ-Z
500	3V@75A	+12V@12A	-12V@4A	24V@7A	12V@2.5A	RP0530-5DK-Z
500	5V@75A	+12V@12A	-12V@4A	24V@7A	12V@2.5A	RP0550-5DK-Z
500	3V@75A	+12V@12A	-12V@4A	48V@3A	5.2V@5A	RP0530-5EJ-Z
500	5V@75A	+12V@12A	-12V@4A	48V@3A	5.2V@5A	RP0550-5EJ-Z
500	3V@75A	+12V@12A	-12V@4A	48V@3A	12V@2.5A	RP0530-5EK-Z
500	5V@75A	+12V@12A	-12V@4A	48V@3A	12V@2.5A	RP0550-5EK-Z
750	5V@110A	+12V@18A	-12V@7A	3.3V@30A	5.2V@6.5A	RP0750-5AJ-Z
750	5V@110A	+12V@18A	-12V@7A	3.3V@30A	12V@3A	RP0750-5AK-Z
750	5V@110A	+12V@18A	-12V@7A	5.2V@15A	5.2V@6.5A	RP0750-5BJ-Z
750	5V@110A	+12V@18A	-12V@7A	5.2V@15A	12V@3A	RP0750-5BK-Z
750	5V@110A	+12V@18A	-12V@7A	12V@13A	5.2V@6.5A	RP0750-5CJ-Z
750	5V@110A	+12V@18A	-12V@7A	12V@13A	12V@3A	RP0750-5CK-Z
750	5V@110A	+12V@18A	-12V@7A	24V@8A	5.2V@6.5A	RP0750-5DJ-Z
750	5V@110A	+12V@18A	-12V@7A	24V@8A	12V@3A	RP0750-5DK-Z
750	5V@110A	+12V@18A	-12V@7A	48V@4A	5.2V@6.5A	RP0750-5EJ-Z
750	5V@110A	+12V@18A	-12V@7A	48V@4A	12V@3A	RP0750-5EK-Z
1000	5V@150A	+12V@24A	-12V@10A	3.3V@40A	5.2V@8A	RP1000-5AJ-Z
1000	5V@150A	+12V@24A	-12V@10A	3.3V@40A	12V@3.5A	RP1000-5AK-Z
1000	5V@150A	+12V@24A	-12V@10A	5.2V@20A	5.2V@8A	RP1000-5BJ-Z
1000	5V@150A	+12V@24A	-12V@10A	5.2V@20A	12V@3.5A	RP1000-5BK-Z
1000	5V@150A	+12V@24A	-12V@10A	12V@16A	5.2V@8A	RP1000-5CJ-Z
1000	5V@150A	+12V@24A	-12V@10A	12V@16A	12V@3.5A	RP1000-5CK-Z
1000	5V@150A	+12V@24A	-12V@10A	24V@8A	5.2V@8A	RP1000-5DJ-Z
1000	5V@150A	+12V@24A	-12V@10A	24V@8A	12V@3.5A	RP1000-5DK-Z
1000	5V@150A	+12V@24A	-12V@10A	48V@4A	5.2V@8A	RP1000-5EJ-Z
1000	5V@150A	+12V@24A	-12V@10A	48V@4A	12V@3.5A	RP1000-5EK-Z

**Options Code**

-N	VME Option
-R	OC protect with restart
-S	Sequencing
-T	Current share / OT

**Description**

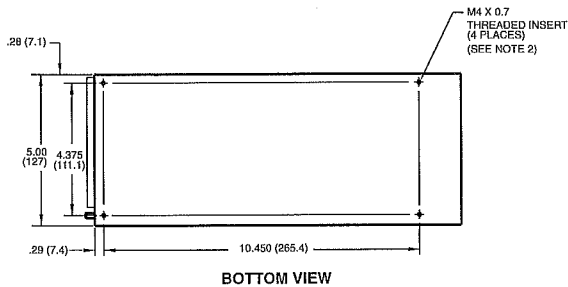
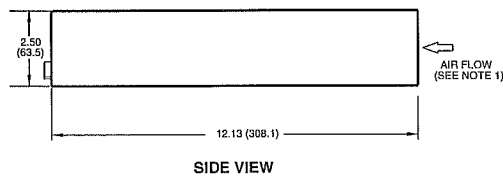
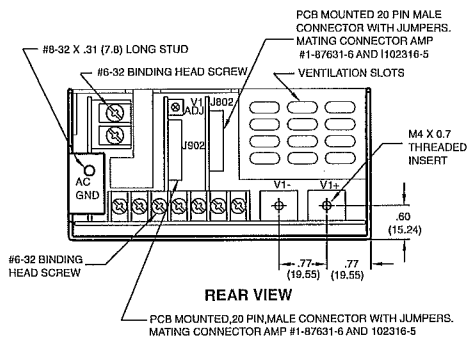
VME AC good, reset, system reset.  
After OC, provides 10 sec delay and auto-restart.  
Output turn-on sequencing.  
10% current share on main, droop on aux's / OT signal.



# RP Series

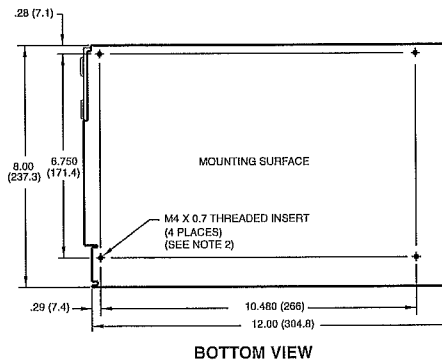
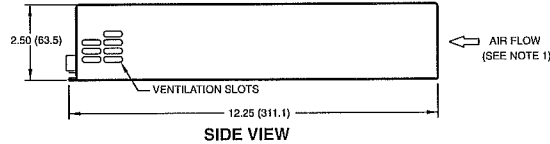
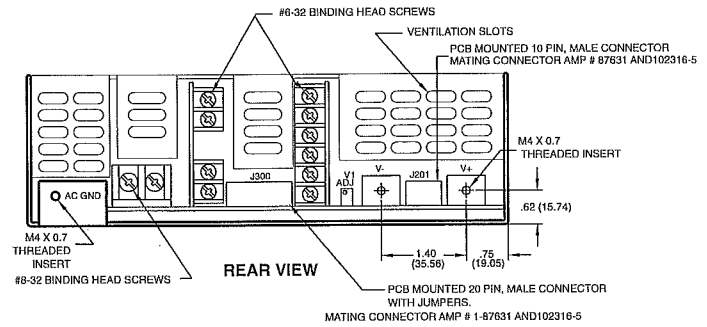
## RP-500

## RP-750/1000



**NOTE:**

1. CUSTOMER MUST PROVIDE ADEQUATE CLEARANCE AT FRONT AND SIDES FOR AIR FLOW.
2. CUSTOMER MOUNTING SCREWS (NO. M4 X 0.7) MUST NOT PROTRUDE INTO POWER SUPPLY BY MORE THAN .25 (6.3)
3. DIMENSIONS ARE IN INCHES EXCEPT DIMENSIONS IN ( ) ARE IN MM.
4. WEIGHT: NET 5.7 LBS, SHIPPING 6.2 LBS.



**NOTE:**

1. CUSTOMER MUST PROVIDE ADEQUATE CLEARANCE AT FRONT, SIDES AND TOP SURFACES FOR AIR FLOW.
2. CUSTOMER MOUNTING SCREWS (NO. M4 X 0.7) MUST NOT PROTRUDE INTO POWER SUPPLY BY MORE THAN .25 (6.3)
3. DIMENSIONS ARE IN INCHES EXCEPT DIMENSIONS IN ( ) ARE IN MM.
4. WEIGHT: NET 8.5 LBS, SHIPPING 10 LBS.



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**Worldwide Website**  
<http://www.lambdapower.com>