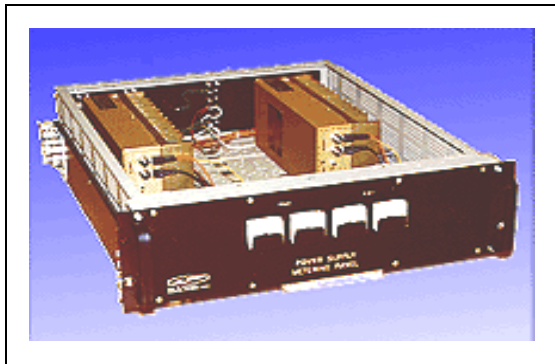


RL Series Up to 6kW

AC-DC & DC-DC Rack Panel Supplies



Note: RL 91078 shown

Product Highlights:

- Efficient AC-DC Supplies & DC-DC Converters
- Wide Input/Output configurations, many EIA sizes
- Status LED/Metered indicators for I/O monitor option
- Myriad of Input and Output termination options
- Over-Temperature Audible & Visual Alarm options
- MIL-STD EMI/EMC, Transients, OVP, OCL options
- Rugged Military Aircraft and Shipboard Applications
- Mil-Std-810 Severe Environments
- -20°C to +50°C max. ambient operating temperature

General Specifications

	RL-91022 3U w/ 4 Meters	RL-91057 4U Case	RL-91064 3U w/ 2 Meters	RL-91077 2U Case	RL-91078 4U w/ 4 Meters
Input Voltage	92-138VAC	92-138VAC	92-138VAC	90-264VAC	92-253VAC
Input Source	1Ø (20A brkr)	1Ø (20A brkr)	1Ø (20A brkr)	1Ø (20A brkr)	1Ø (20A brkr)
Frequency Range	47-63Hz	47-63Hz	47-63Hz	47-63Hz	47-63Hz
DC Output(s)	28V@20A x2 N+1 Redundant	24V@22A x2 N+1 Redundant	5V@90A x2 N+1 Redundant	8 isolated outputs	2 isolated outputs
Output Power	1.1kW	1.1kW	900W	850W	1.2kW

Electrical Specifications

	RL-91022	RL-91057	RL-91064	RL-91077	RL-91078
Line Regulation Eo Lo Line to Hi Line)	1%	1%	1%	1%	1%
Load Regulation Eo ½ Load to Full Load	1%	1%	1%	1%	1%
Pk-Pk Noise Eo DC- 20MHz	1%	1%	1%	1%	1%
Indicator LED status	1 ACin, 2 DCout	1 ACin, 2 DCout	1ACin, 2 DCout	1 ACin, 1 DCfault	1ACin, 1 DCout
Over-Current Limit	< 120% (Imax)	< 120% (Imax)	< 120% (Imax)	< 120% (Imax)	< 120% (Imax)
Thermal Protection	100°C min.	100°C min.	100°C min.	100°C min.	100°C min.
Fault/Status Alarm	Standard	Standard	Standard	Standard	Standard
Isolation (5mA max.)	> 100MΩ @ 1000VDC, Input to Output & Input to Case; > 100MΩ @ 500VDC Output(s) to Case				
EMI	Mil-Std-461D, CE101CE102 on input; EMI gasket provisions for maximum attenuation of 20dB 10kHz to 100kHz and 40db 100kHz to 1GHz				
Spikes & Surges	Mil-Std-704D	Mil-Std-704D	Mil-Std-704D	Mil-Std-704E	Mil-Std-704E

Temperature Specifications

Operating Temperature (maximum):	-20°C to +50°C Ambient (if convection cooled 250LFM airflow is required)
Baseplate Operating Temperature	-55°C to +71°C Baseplate temperature range option
Storage Temperature	-40°C to +71°C
Temperature Coefficient	0.02%/°C

Note: Other output selections and Environmental Stress Screening also available. Please consult factory for details.



Arnold Magnetics Corporation, 841 Avenida Acaso, Camarillo, Ca 93012
Phone: 805/484-4221 Fax: 805/484-4113 Website: www.amcpower.com

Note: Specifications subject to change without notice.

Last Update 09/07/06

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RL Series Up to 6kW

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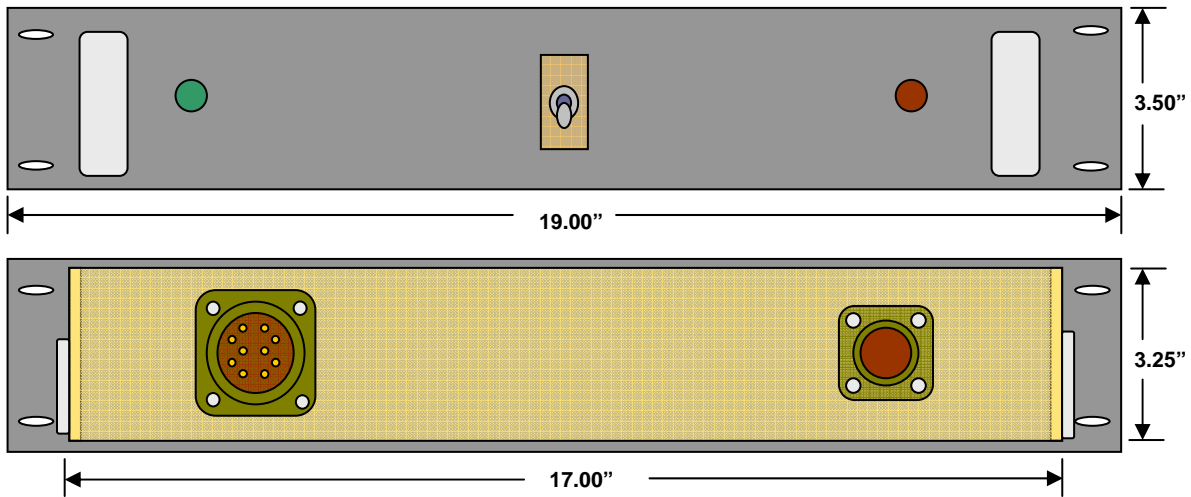
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Environmental Specifications	
Pressure-Altitude	Per MIL-STD-810F, Method 500.4, Procedure I and II
High Temperature	Per MIL-STD-810F, Method 501.4, Procedure I and II
Low Temperature	Per MIL-STD-810F, Method 502.4, Procedure I
Humidity	Per MIL-STD-810F, Method 507.4, Procedure I
Fungus	Per Mil-Std-810F, Method 508.5, Procedure I
Salt Fog	Per Mil-Std-810F, Method 509.4, Procedure I
Sand and Dust	Per Mil-Std-810F, Method 510.4, Procedure I and II
Explosive Atmosphere	Per Mil-Std-810F, Method 511.4, Procedure I
Acceleration	Per MIL-STD-810F, Method 513.5, Procedure I and II
Vibration	Per MIL-STD-167, Type 1 4Hz to 25Hz @ 0.1P-P; 5 min. dwell @ 1Hz increments 4Hz to 15Hz @ 0.06 P-P; 16Hz-25Hz @ 0.04 P-P
Shock	Per MIL-STD-901D, Grade B

Physical Characteristics	
Maximum Case Size (excl. handles & slides)	3U: 5.25"H x 17.00"W x 20.00"D; 6U: 10.47"H x 17.00"W x 20.00"D
Cooling Method	Conduction cooled via front panel & case; Convection cooled (200LFM min.)
Enclosure Finish	Gray per FED-STD-595, Naval 26307 color
Baseplate Finish	Gold Iridite Mil-C-5541E, Class 1A
Input/Output Connectors and Terminations	Circular D38999 J1, J2, etc. typical, studs, terminal blocks, bus bars option
Mounting: EIA 310 Panel Mounting or Slides	EIA 310 Rack Panel Mounting or with optional captive fasteners or slides
Weight	3U: <35 lbs. typical; 6U: < 50 lbs. typical

Outline and Mounting:

Example shown below is RL-91077



- Notes: 1) Above Dimensions and tolerance per ANSI-STD-14.5
 2) Tolerance .xx = 0.03, xxx = 0.005



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