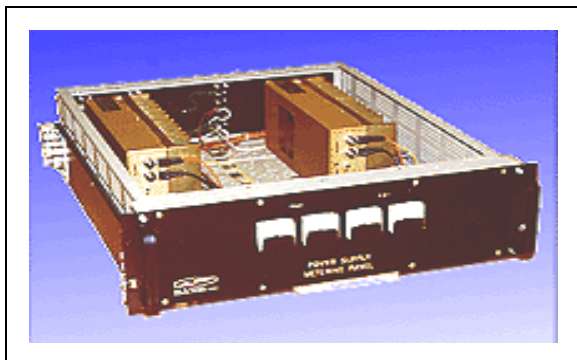


# RL Series Up to 6kW

## AC-DC & DC-DC Rack Panel Supplies

### Product Highlights:



- Efficient AC-DC & DC-DC Supplies & Converters
- Wide Input/Output configurations variety of EIA sizes
- Status LED/Metered indicators for I/O monitor option
- Input & Output Switched Circuit Breaker options
- Over-Temperature Audible & Visual Alarm options
- MIL-STD EMI/EMC, Transients, OVP, OCL options
- Rugged Military Aircraft and Shipboard Applications
- MIL-STD-810 Environs; MIL-S-901, MIL-STD-167 Opt
- -20°C to +50°C max. ambient operating temperature
- Three phase input is available

Note: RL 91078 shown

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	95-132VAC	95-132VAC	95-132VAC	90-264VAC	95-132VAC
Input Source	1Ø (20A brkr)	1Ø (20A brkr)	1Ø (20A brkr)	1Ø (20A brkr)	1Ø (20A brkr)
Frequency Range	47-63Hz	47-63Hz	47-400Hz	47-63Hz	47-63Hz
DC Output(s)	28VDC@20A x2 N+1 Redundant	24VDC@22A x2 N+1 Redundant	5VDC@90A	8 Isolated outputs	+20VDC@14A -20VDC@14A

Electrical Specifications					
	RL-91022	RL-91057	RL-91064	RL-91077	RL-91078
Line Regulation $E_o$ Lo Line to Hi Line	1%	1%	1%	1%	1%
Load Regulation $E_o$ ½ Load to Full Load	1%	1%	1%	1%	1%
Pk-Pk Noise ( $E_o$ ) DC- 20MHz	1%	1%	1%	1%	1%
Front Panel Indicator	1 ACIN, 2 DCOUT	1 ACIN, 2 DCOUT	Output Meters Volts & Amps	1 ACIN, 1 DCGOOD 1 DCFAULT	Output Meters Volts & Amps
Over-Current Limit	< 130% (I MAX)	< 130% (I MAX)	< 130% (I MAX)	< 130% (I MAX)	< 130% (I MAX)
Thermal Protection	Standard	Standard	Standard	Standard	Standard
Fault Status/Alarm	Optional	Optional	Optional	Optional	Optional
Isolation (5mA max.)	> 10MΩ @ 1000VDC, Input to Output & Input to Case; ≥ 50VDC or 1.3 Output(s) to Case				
EMI	MIL-STD-461D, CE101, CE102 on input; EMI shielding provisions for minimum attenuation of 20dB 10kHz to 100kHz and 40db 100kHz to 1GHz				
Transient Protection	MOV Protection surges & spikes MIL-STD-704, -1399 – optional , see factory for details				
Output Power	1.1kW	1.1kW	900W	850W	560W

### Temperature Specifications

Operating Temperature (typical)	-20°C to +50°C Ambient (if convection cooled, 200 LFM airflow is recommended)
Storage Temperature	-40°C to +71°C
Temperature Coefficient	0.02%/°C, -20°C to +50°C

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



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Note: Specifications subject to change without notice.

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# RL Series

Up to 6kW

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-810 standard; MIL-S-901D, Grade B optional

Physical Characteristics	
Maximum Case Size (excl. handles & slides)	<b>3U:</b> 5.25"H x 17.00"W x 20.00"D; <b>6U:</b> 10.47"H x 17.00"W x 20.00"D
Cooling Method	Conduction cooled through front panel & case
Conformal Coat / Encapsulation	Humiseal 1B31 for V-Series units; RTV, GE615 for EL/RM & PB units
Enclosure Finish - typical	Powder coat paint per FED-STD-595, Naval 26307 Gray color
Baseplate Finish	Clear Iridite Mil-C-5541, Type II, Class 1A
Input/Output Connectors and Terminations	Insulated Barrier Blocks typical; MIL-C connectors or Bus Bars optional
Mounting:	EIA 310 Panel typical; Rack Mounting - holes and slides optional
Weight	<b>3U</b> < 35 lbs. typical; <b>6U</b> < 50 lbs. typical

Rack Mount Case:

Example shown below is RL-91077 2U Case



RL Series



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