

### 94051- Line Replaceable Unit (LRU)

The 94051 LRU power supply is a ruggedly built, modified COTS, modular design, Line Replaceable Unit) used in a Control System for a nuclear power plant. Features include N+1 redundant, hot-swappable and current sharing, with front panel status indicators and designed to meet the stringent requirements of military and critical industrial applications.

#### Features

- N+1 redundant
- Hot swappable
- Modular design for user replacement
- Front panel status indicators on front panel



#### SPECIFICATIONS

##### INPUT

Voltage	90-240 VAC, Single Phase
Frequency	47-63 Hz
PFC Input	0.95 minimum
Harmonic Content	Designed to meet MIL-STD-1399
Brownout ride-through	50ms. minimum

##### OUTPUT

5 Volts Logic power;	5 VDC @ 100 A; Adjustable +/-10%
5 Volt memory;	5 VDC @ 3A; Adjustable +/-10%
Dual 12 Volts;	+/-12 VDC @ 1.5A Common Ground
	All DC commons isolated from chassis ground
Power rating	551 watts
Efficiency:	75% typical @ full load
Ripple:	100mv peak to peak for 5 VDC Outputs, 200mv peak to peak for other voltages measured at 25MHz bandwidth over temperature range.
Over current protection:	Short Circuit and Over Current Protected
Current sharing:	Automatic
Over voltage protection:	105-130% of nominal voltage
Current limiting:	115% minimum of rated current @ nominal voltage (auto recovery)
Load regulation:	1% maximum (0.5% typical) per output
Line regulation:	0.5% maximum (0.2% typical) per output

#### STATUS SIGNALS

Power LRU: AC OK, DC OK, FAN OK

### PHYSICAL

Dimensions: 1/3 Rack Mount Chassis, (3U) 5 1/4"H x 15"D) with guide pins bushings.  
Cooling: Internal fans. Intake front and exhaust rear.  
Weight: 10 lbs  
Power Connectors: **J1 AC in, 5 pin**  
**J2 DC out 24 pin**  
**J3 DC out 24 pin**

### ENVIRONMENTAL

Operating Temperature 0°C to 50°C  
Storage Temperature -40°C to 60°C  
Humidity 0% to 95% Non-Condensing

**Note: Unit has been designed to meet MIL-STD-1399 and MIL-STD-461.**



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