Model: HPRU1000D-1-6287
P/N: 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 ¼"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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