

94016-MK119 Line Replaceable Unit (LRU)

The MK119 LRU power supply is a ruggedly built, modified COTS, modular design, Line Replaceable Unit)used in the MK119 Power Supply System Model 94012. Features include N+1 redundant, hot-swappable and current sharing, with front panel status indicators and designed to meet the stringent requirements of life aboard a US Navy warship.

Features

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



SPECIFICATIONS

INPUT

Voltage	120 VAC, +/- 10%, 1 phase, per MIL-STD-1399.
Frequency	57-63 Hz, per MIL-STD-1399
PFC Input	.95 minimum
Harmonic Content	Per MIL-STD-1399

OUTPUT

-12 VDC	5 AMPS Minimum
+12 VDC	17 AMPS Minimum
+5 VDC	80 AMPS Minimum
+28 VDC	4.5 AMPS Minimum
Power rating	790 watts
Efficiency:	65% minimum (75% typical) @ full load
Ripple:	100 mvolts peak to peak for 5 VDC output, 200 mvolts peak to peak for other voltages measured at 25 MHz bandwidth over temperature range
Remote sense:	0.5 volts compensation per output
Over current protection:	110-120% of full load (auto recovery)
Current sharing:	Automatic
Over voltage protection:	105-130% of nominal voltage (non shutdown, auto recovery)
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

DC OK

FAN OK

Over Temperature

All signals are open collector/open drain TTL compatible. Fault to cause a logic state low.

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.

Connections:

ENVIRONMENTAL

Operating Temperature

0°C to 45°C

Storage Temperature

-40°C to 60°C

Humidity

0% to 95% Non-Condensing

Note: Unit designed to meet MIL-STD-1399 and MIL-STD-461



Headquarters

80 Cabot Court Hauppauge, NY 11788
(631)435-0410 (800)874-6727 Fax(631)951-4341

BEHLMAN

e-mail: sales@behlman.com
Web-site: www.behlman.com

West Coast Office

4532 Telephone Road Suite 103 Ventura, CA 93003
(805)642-0660 (800)456-2006 Fax(805)642-0790
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