

## 94012-MK119 Power Supply System

The MK119 Power Supply System is a ruggedly built, modified COTS, modular design with three user replaceable Line Replaceable Unit's (LRU's), Model 94016. All three LRU's share the load. In the event of loss of one LRU the remaining two can support the full load and the third unit can be replaced, hot-swapped, with power on the system. 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 with user replaceable LRU's
- Front panel status indicators on front panel
- Rack mountable with option for slides



## 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	10 AMPS Minimum
+12 VDC	33 AMPS Minimum
+5 VDC	160 AMPS Minimum
+28 VDC	8.6 AMPS Minimum
Power rating	1,560 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:

19" Rack Mount Chassis, (3U) 5 1/4"H x 22"D

Cooling:

Internal fans. Intake front and exhaust rear.

Slide mounting pattern:

Compatible with Standard Precision (formerly Accuride) part number 3307-22.

Power Connections:

(J1) Input – MS3102R-22-22P

(J2) Aux. Output – MS3102R-22-12S

(J3) Main output – MS3102R-36-5S

(J4) Aux. Output – MS3102R-28-21S

(J5) Main ON/OFF – 25 Amp circuit breaker

## 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***



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