

M914 SERIES

AC/DC LINEAR POWER SUPPLY



PRODUCT HIGHLIGHTS

- **MINIATURE**
- **HIGH DENSITY**
- **3-PHASE 400HZ INPUT**
- **SINGLE/DUAL OUTPUT**
- **UP TO 90 W**

M914 SERIES AC/DC LINEAR POWER SUPPLY

Applications

Military, Ruggedized, Telecom, Industrial

Special Features

- Miniature size
- Low noise non-switching linear regulator
- High Reliability Components
- Input / Output isolation
- EMI filters included
- Indefinite short circuit protection with auto-recovery
- Over Voltage Protection

Environmental

Meets or exceeds MIL-STD-

810D Temperature:

Operating -55°C to +85°C (baseplate)

Storage -55°C to +125°C

Reliability

150'000 hours, calculated per MIL-STD-217F at +85°C baseplate, ground fixed.

Electrical Specifications

AC INPUT

AC Input range:

115VAC, 3-Phase, 400 Hz

EMC:

Designed to meet or exceed MIL-STD-461D:

CE03, CE07

RE02

RS02,

RS03

CS01, CS02, CS06

Isolation:

500V between Input and Output

500V between Input and Case

DC OUTPUT (floating)

Line/Load regulation:

Less than 1%

(No load to full load, -40°C to +90°C)

Ripple and Noise:

30 mV_{p-p}, typical (max. 1%)

Current limiting (Fold Back):

Continuous protection for unlimited time

Overvoltage protection: Passive tranzorb on outputs.

Isolation:

500V between Output and Input

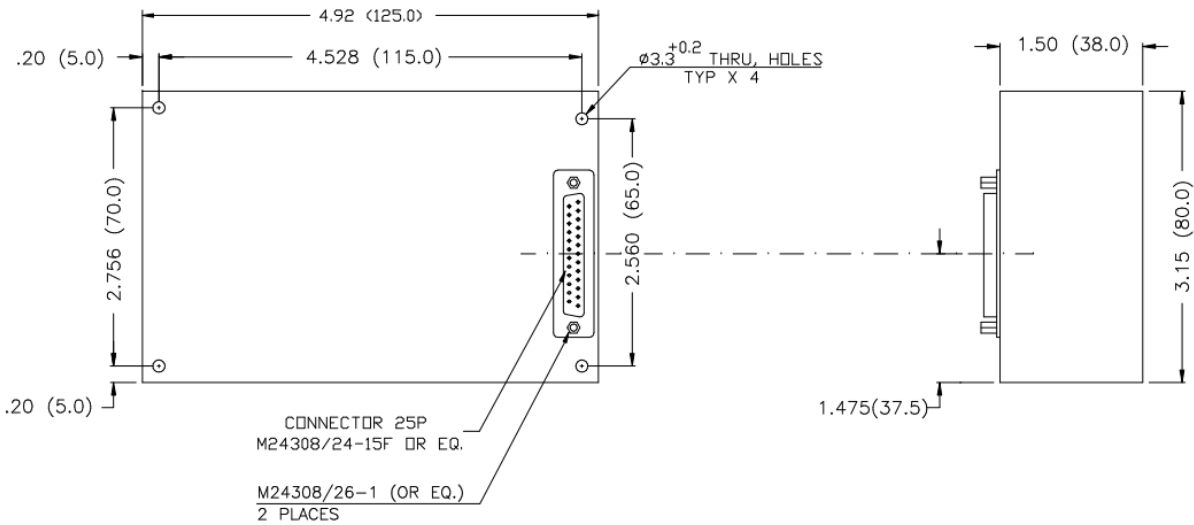
100V between Output and Case

M914 SERIES AC/DC LINEAR POWER SUPPLY

Typical Pin Assignment for Single Output

PIN NUMBER	PIN DESIGNATION
1	RTN OUT 1
2	RTN OUT 1
3	RTN OUT 1
4	RTN OUT 1
5	RTN OUT 1
6	RTN OUT 1
7	+ OUT 1
8	+ OUT 1
9	+ OUT 1
10	+ OUT 1
11	N.C.
12	115VAC PH. B INPUT
13	115VAC PH. A INPUT
14	RTN OUT 1
15	RTN OUT 1
16	RTN OUT 1
17	RTN OUT 1
18	+ OUT 1
19	+ OUT 1
20	+ OUT 1
21	+ OUT 1
22	+ OUT 1
23	+ OUT 1
24	N.C.
25	115VAC PH. C INPUT

Outline Drawing Single Output

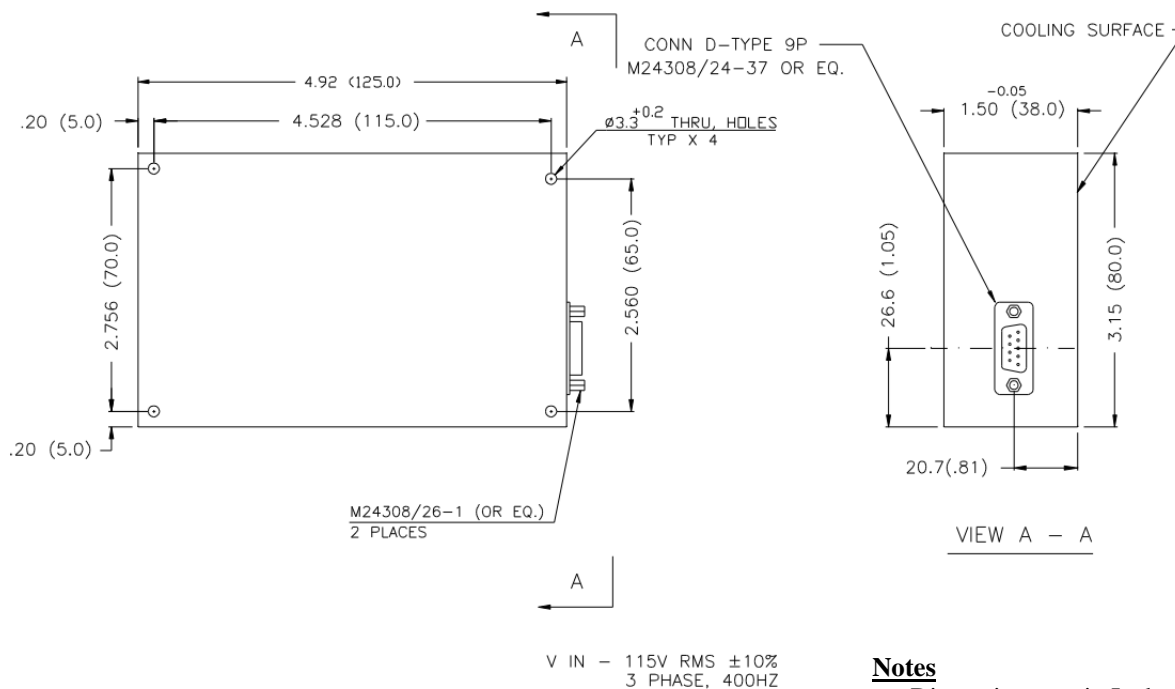


M914 SERIES AC/DC LINEAR POWER SUPPLY

Typical Pin Assignment for Dual Output

PIN NUMBER	PIN DESIGNATION
1	115VAC PH. A INPUT
2	V OUT 1 RTN
3	V OUT 1
4	115VAC PH. B INPUT
5	V OUT 2
6	V OUT 2 RTN
7	115VAC PH. C INPUT
8	
9	N.C.

Outline Drawing Dual Output



***Specifications are subject to change without prior notice by the manufacturer.**

Notes

1. Dimensions are in Inches [mm]
2. Tolerance is:
.XX ±0.01 IN
.XXX ±0.005 IN
3. Weight (Typical): 33Oz (950gr)
4. Add suffix "S" for side connector model (replacing the top connector)

Milpower Source, Inc. • Belmont, NH, USA • P: (603) 267-8865
Email: sales@milpower.com • Website: www.milpower.com • CAGE: 0B7R6