

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

Temperature

Operating:

-55 °C to +85 °C (at baseplate)

Storage:

-55 °C to +125 °C (ambient)

Altitude

Method 500.4

Procedure I (non-operational): Up to 70,000 ft.

Procedure II (operational):

Up to 40,000 ft.

Salt Fog

Method 509.4

Humidity

Method 507.4

Up to 95% RH

Vibration

Method 514.5

Category 24 - General minimum integrity exposure

1 hour per axis

Shock

Method 516.5

Saw-tooth, 20 g peak, 11 ms.

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

transorb on outputs.

Isolation:

500V between Output and Input

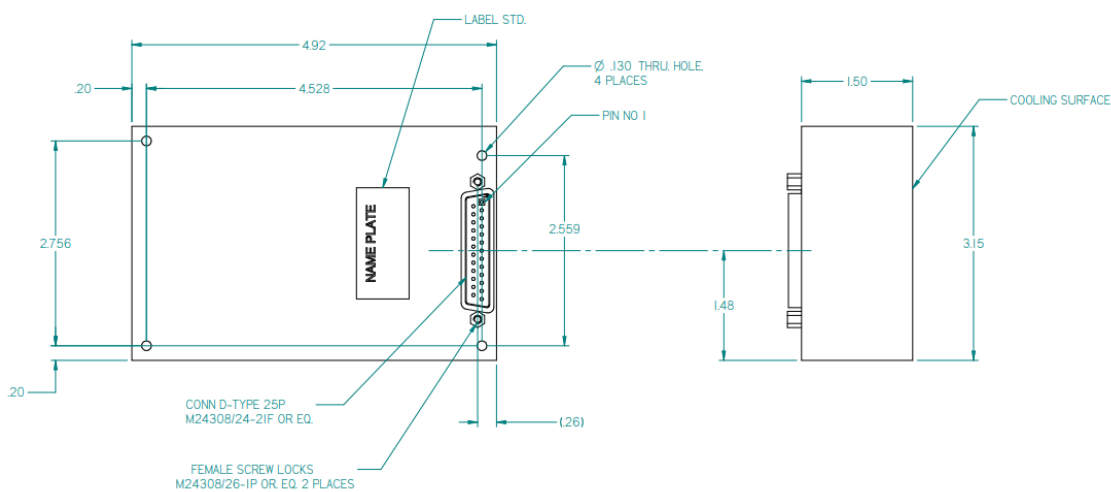
100V between Output and Case

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Typical Pin Assignment for Single Output

PIN NUMBER	PIN DESIGNATION
1	Vout_RTN
14	Vout_RTN
2	Vout_RTN
15	Vout_RTN
3	Vout_RTN
16	Vout_RTN
4	Vout_RTN
17	Vout_RTN
5	Vout_RTN
18	Vout
6	Vout_RTN
19	Vout
7	Vout
20	Vout
8	Vout
21	Vout
9	Vout
22	Vout
10	Vout
23	Vout
11	N.C
24	N.C
12	Phase_B
25	Phase_C
13	Phase_A

Outline Drawing Single Output



NOTES:

1. MTL AL 6061-T651, AL 5052.
2. FINISH: CHROMATE CONVERSION COATING PER MIL -DTL-554I, LAST REVISION, TYPE I, CLASS 1A.

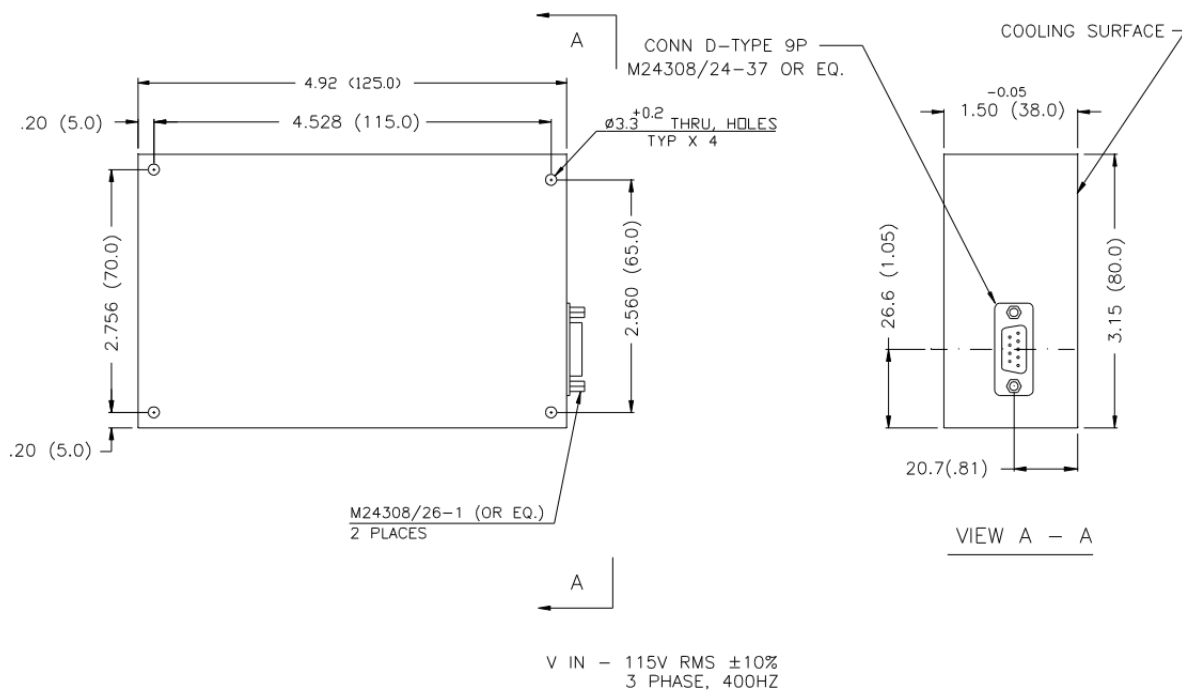
UNLESS OTHERWISE SPECIFIED	
GENERAL TOLERANCES	
DIMENSIONS ARE IN [IN]	.XX ± .02
DO NOT SCALE DRAWING	.XXX ± .010
	ANGLES ± .5°

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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	N.C.
9	

Outline Drawing Dual Output



Notes

1. Dimensions are in Inches [mm]
2. Tolerance is:
.XX ± 0.01 IN
.XXX ± 0.005 IN
3. Weight (Typical): 330z (950gr)
4. Add suffix "S" for side connector model (replacing the top connector)

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