

M251 SERIES

3-PHASE AC/DC
POWER SUPPLY



PRODUCT HIGHLIGHTS

- HIGH EFFICIENCY
- SINGLE OUTPUT
- HIGH VOLTAGE OUTPUT
- 3-PHASE AC/DC POWER SUPPLY
- UP TO 2000 W



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APPLICATIONS

Military, Ruggedized, Telecom, Industrial

SPECIAL FEATURES

- Compact size
- High efficiency
- Wide input range
- Input / Output isolation
- Fixed switching frequency (400 kHz)
- Logic Inhibit
- EMC filters included
- Limited Inrush Current
- Indefinite short circuit protection with auto-recovery
- Over temperature shutdown with auto-recovery

ENVIRONMENTAL CONDITIONS

Meets or exceeds MIL-STD-810D

Temperature:

Operating $-55\text{ }^{\circ}\text{C}$ to $+85\text{ }^{\circ}\text{C}$ (baseplate)

Storage $-55\text{ }^{\circ}\text{C}$ to $+125\text{ }^{\circ}\text{C}$

RELIABILITY

150,000 hours, calculated per MIL-STD-217F Notice 2 at $+85\text{ }^{\circ}\text{C}$ baseplate, Ground Fixed.

ELECTRICAL SPECIFICATIONS

AC INPUT

Input Type and Range:

3-Phase $115\text{ V}_{\text{RMS,L-N}} \pm 10\%$, 400 Hz

Efficiency: 90%, Typical

Power Factor: 85% - 90% @ 50-100% load

EMC:

Designed to meet MIL-STD-461C

CE03, CS01, CS02, CS06, RS02, RS03, RE02

Input Transient Protection:

Meets or exceeds MIL-STD-704A

Isolation:

Input to Output: 500 V_{DC}

Input to Case: 500 V_{DC}

DC OUTPUT (floating)

Line/Load regulation:

Up to $\pm 1\%$ (0 to 100% load, $-55\text{ }^{\circ}\text{C}$ to $+90\text{ }^{\circ}\text{C}$)

Ripple and Noise:

$300\text{ mV}_{\text{p-p}}$, typical (max. 1%)

Current limiting:

Continuous protection for unlimited time

Over-voltage protection:

Passive transorb on outputs.

Over temperature protection:

Shutdown if baseplate temperature rises above $+105\text{ }^{\circ}\text{C} \pm 5\text{ }^{\circ}\text{C}$;

Automatic recovery when baseplate temperature falls below $+95\text{ }^{\circ}\text{C} \pm 5\text{ }^{\circ}\text{C}$

Isolation:

Output to Case: 500 V_{DC}

PIN ASSIGNMENT**CONNECTOR J1 (OUTPUT)****Connector type:** M24308/23-38F or eq.**Mating connector:** M24308/4-2F or eq.

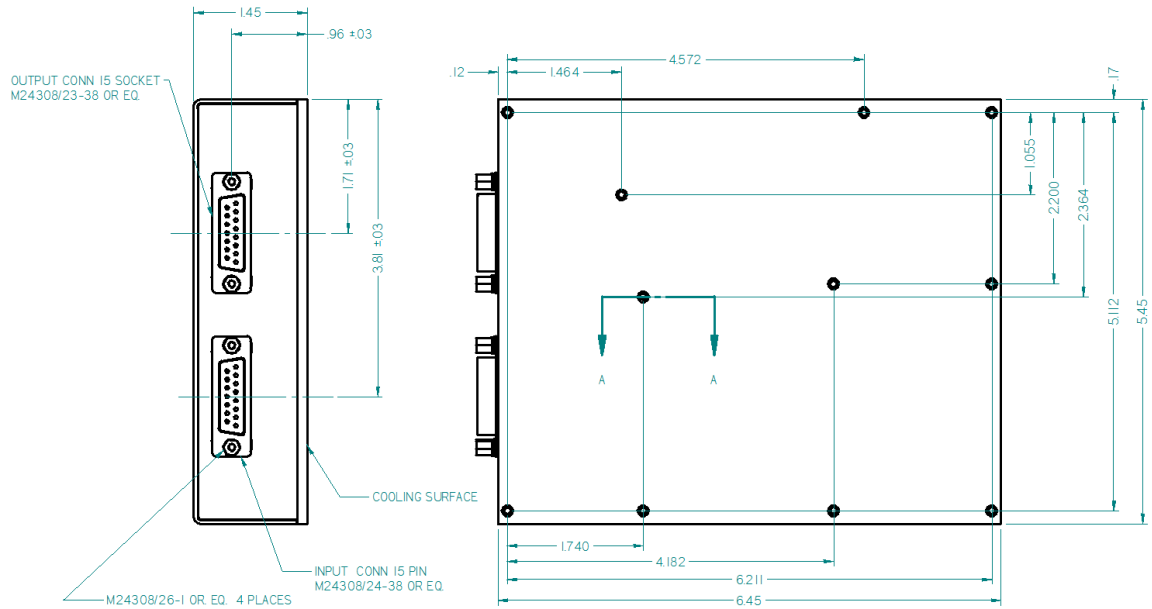
Pin Function	Pin No.
V_{OUT}	4, 5, 11, 12
V_{OUT} RTN	7, 8, 14, 15
ON/OFF	3

CONNECTOR J2 (INPUT)**Connector type:** M24308/24-38F or eq.**Mating connector:** M24308/2-2F or eq.

Pin Function	Pin No.
PHASE A	7, 14, 15
PHASE B	4, 5, 12
PHASE C	2, 9, 10
CHASSIS	1

OUTLINE DRAWING

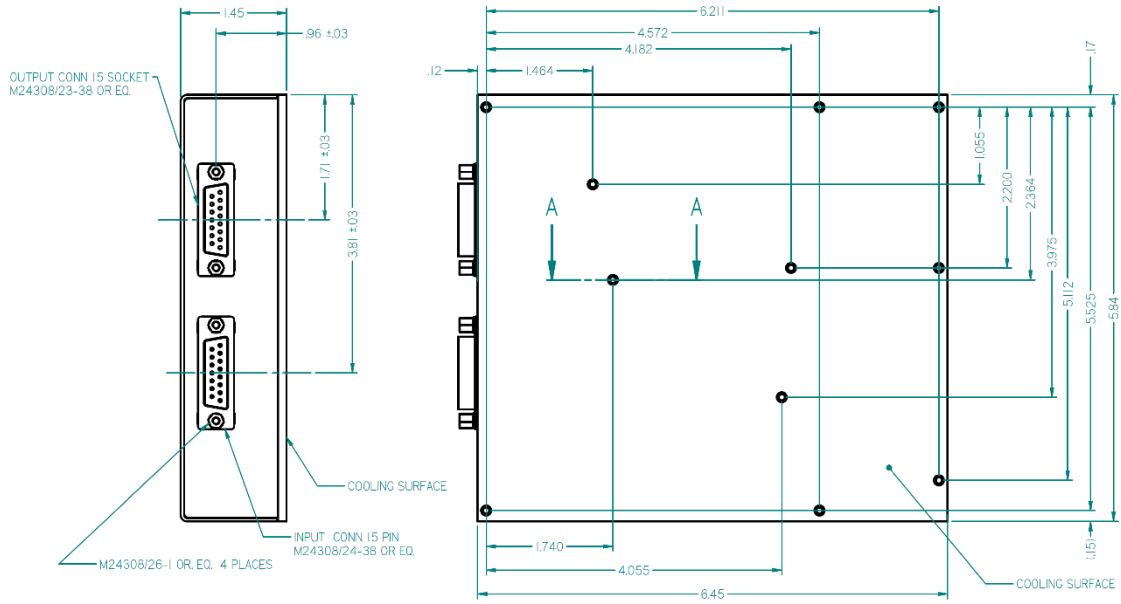
Non-parallelable version



Notes

1. Dimensions are in inches
2. Tolerance is:
 .XX ± .02 in
 .XXX ± .01 in
3. Weight: Approx. TBD lbs (TBD)

Paralleable version



Notes

4. Dimensions are in inches
5. Tolerance is:
 .XX ± .02 in
 .XXX ± .01 in
6. Weight: Approx. 3.48 lbs (1.58 kg)

Note: Specifications are subject to change without prior notice by the manufacturer