
M251 SERIES

**COMPACT, HIGH DENSITY,
HIGH EFFICIENCY, SINGLE OUTPUT,
UP TO 2000W, AC/DC CONVERTERS**

APPLICATIONS

Military, Ruggedized, Telecom, Industrial

SPECIAL FEATURES

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

ENVIRONMENTAL

Meets or exceeds MIL-STD-810D
Condensation drip proof

Temperature:

Operating -55C to +85°C (baseplate)

Storage -55C 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: 115 ±10%VAC L-N, 50Hz, 60Hz, 400 Hz,
3-Phase Input

Efficiency: 90%, Typical

EMI/RFI:

Design to meets or exceeds MIL-STD-461C
CE03, CS01, CS02, CS06, RS02, RS03, RE02

Input Transient Protection:

Meets or exceeds MIL-STD-704A

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, -55°C to +90°C)

Ripple and Noise: 300mVp-p, typical (max. 1%)

Current limiting:

Continuous protection for unlimited time

Passive tranzorb on outputs.

Over temperature protection:

Shutdown at baseplate temperature of +105°C (±5°C)

Automatic recovery at baseplate temperature

lower than +95°C

Isolation:

500V between Output and Input

500V between Output and Case

J1 PIN ASSIGNMENT (OUTPUT)

| Pin Function | Pin No. |
|--------------|--------------|
| VOUT | 4, 5, 11, 12 |
| VOUT RTN | 7, 8, 14, 15 |
| ON/OFF | 3 |

J2 PIN ASSIGNMENT (INPUT)

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

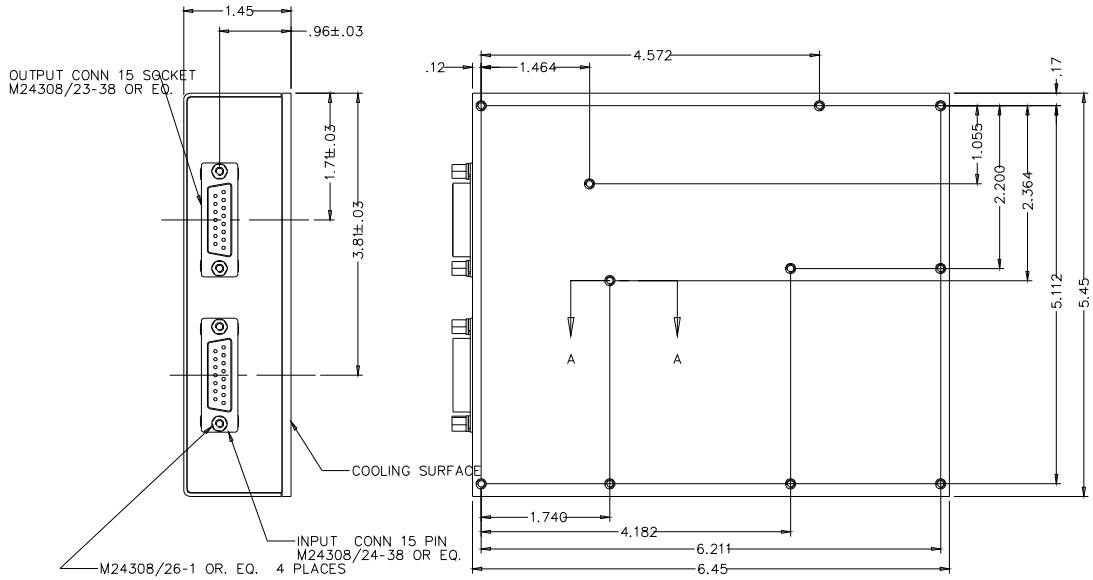


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FILE: M251CAT, Page 2 of 3

OUTLINE DRAWING



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

Notes

1. Dimensions are in Inches [mm]
2. Tolerance is:
XX ±.02 IN
.XXX ±.01 IN
3. Weight: Approx. 4.4 lb (2 Kg)