Abbott TECHNOLOGIES®

WHEN RELIABILITY IS IMPERATIVE™

AM200

200 WATT AC TO DC POWER FOR EXTREME ENVIRONMENTS

HIGH EFFICIENCY, COMPACT SIZE.

Currently serving in many active programs, the AM200 Series is proven to perform in extreme environments.

Featuring full Power Factor Correction in a rugged, compact chassis, the AM200 Series is designed to meet MIL-S-901 High Impact Shock, MIL-STD-810 Environmental Requirements, MIL-STD-1399 Input Requirements, MIL-STD-461 CE101, CE102 EMI Requirements.

The AM200 series is IP65 sealed (IP67 available) and features MS3470 connectors as standard. Factory Configurable.

SPECIFICATIONS:

AC INPUT:
95-260 VAC, 47-440Hz, single phase. Power factor corrected. Meets MIL-STD-1399, Section 300, type 1 requirements.

EFFICIENCY:
80% minimum.(90% typ, 28 VDC Model at 100% load)

LINE REGULATION:
±1% of nominal over the full range of line input voltage.

LOAD REGULATION:
±1% for change from no load to full load.

RIPPLE AND NOISE:
Peak-to-peak combined ripple and noise does not exceed 2% of nominal output measured with a 20 MHz bandwidth.

ELECTROMAGNETIC COMPATIBILITY:
MIL-STD-461 requirements: CE101, CE102. FCC 20780 class A

ISOLATION:
Input to output: 1500 VDC
Input to case: 1500 VDC
Output to case: 500 VDC

TEMPERATURE RANGE:
Storage: -50°C to +85°C.
Operating temperature: -40°C to +70°C baseplate with no power derating.

CIRCUIT PROTECTION:
Each unit is completely protected against a short circuit of any duration. The current is nominally set at 120% of full load. The output voltage automatically restores to normal when the short is removed.

INPUT PROTECTION:
Internal fuse; In-rush current limiting; Transient protection

OVER TEMPERATURE PROTECTION:
Output shut down if maximum case temperature limit is exceeded.

RELIABILITY:
MTBF 109,000 hours at 25C ambient calculated per MIL-HDBK-217 in naval sheltered environment.

WEIGHT: 2 lbs typical.

ENVIRONMENTAL CONDITIONS:
MIL-STD-810
Shock: Method 516.6, Procedure IV, MIL-S-901 requirements (light weight)
Vibration: Method 514.5, MIL-STD-167, type 1 requirements
Humidity: Method 507 (Power supply operates without any evidence of degraded performance in non-condensing relative humidity up to 95% (Select "C" option for 100% condensing environment)
Altitude: Method 500.4, Procedure I & II
Salt Fog: Method 509.4
Altitude: Method 500.4, Procedure I & II
High Temperature: Method 501.4, Procedure I & II
Low Temperature: Method 502.4, Procedure I
Sand and Dust: Method 510.4, Procedure I & II
Explosive Atmosphere: Method 511.4, Procedure
Acceleration: Method 513.5, Procedure I & II

REMOTE ERROR SENSING:
Standard.

CONTROL FEATURES:
"INHIBIT," "ENABLE"
(TTL LOW=TRUE).

REV 20220211

**Specifications subject to change without notice*

MADE IN THE USA | AS9100D | SBA WOSB Woman Owned Small Business | HUBZone

8203 VINELAND AVENUE, SUN VALLEY, CALIFORNIA 91352
800-367-8200 | WWW.ABBOTT-TECH.COM

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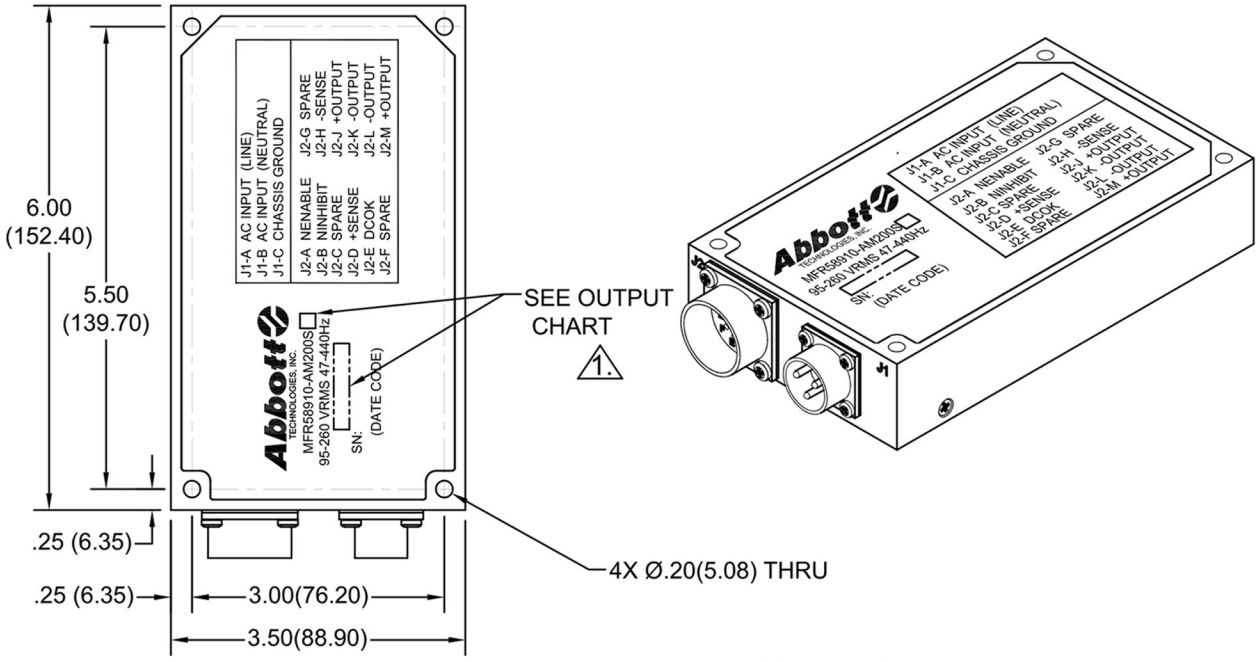
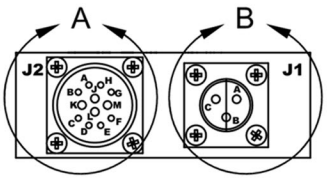
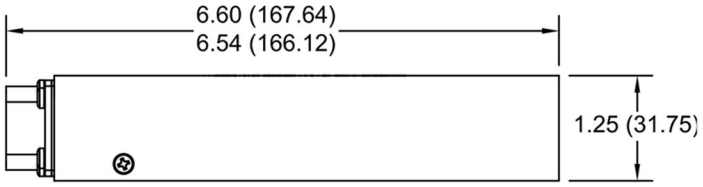
MECHANICAL DRAWING:







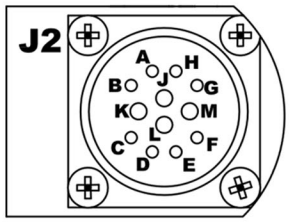
AM200 EC 28 H -303

CONFIGURATION:
S = STANDARD
E = EMI ENHANCED
EC = EMI CONDENSING ENVIRONMENT
M = IP67 SEALED

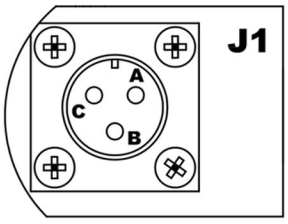
OUTPUT VOLTAGE:
(SEE AVAILABLE OUTPUTS)

HARDWARE:
H = HEATSINK
HB = HEATSINK/BRACKET
HBD = HEATSINK/BRACKET/DUST CAPS

COLOR:
(NONE) = BLACK 27041
303 = SAND 33303
383 = GREEN 383
151 = GRAY 151



DETAIL A



DETAIL B

1. INPUT: 95-260 VRMS, 47-440 Hz

OUTPUT	MODEL
12 VDC@16.67A	AM200S12
13.6VDC@14.7A	AM200S13.6
15VDC@13.33A	AM200S15
24VDC @ 8.33A	AM200S24
28VDC @ 7.14A	AM200S28
48VDC @ 4.17A	AM200S48

J2 MS3470W14-12S (O/P)

PIN #	FUNCTION	PIN #	FUNCTION
J2-A	NENABLE	J2-G	SPARE
J2-B	NINHIBIT	J2-H	-SENSE
J2-C	SPARE	J2-J	+OUTPUT
J2-D	+SENSE	J2-K	-OUTPUT
J2-E	DCOK	J2-L	-OUTPUT
J2-F	SPARE	J2-M	+OUTPUT

J1 MS3470W12-3P (I/P)

PIN #	FUNCTION
J1-A	AC INPUT (LINE)
J1-B	AC INPUT (NEUTRAL)
J1-C	CHASSIS GROUND

2. FINISH: BLACK PAINT.
3. MATING CONNECTOR:
   (J1) MS3476W12-3S
   (J2) MS3476W14-12P
4. DIMENSION IN PARENTHESIS ( ) ARE IN MILLIMETERS.

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