

WHEN RELIABILITY IS IMPERATIVE™



AM200

AS200

AM200/AS200 200 Watt AC-DC Switchers

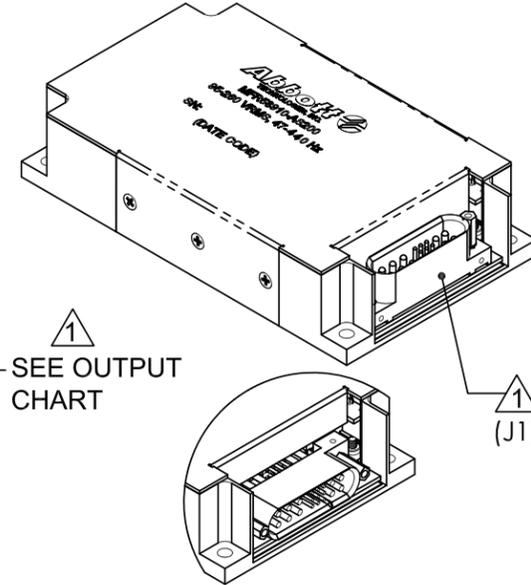
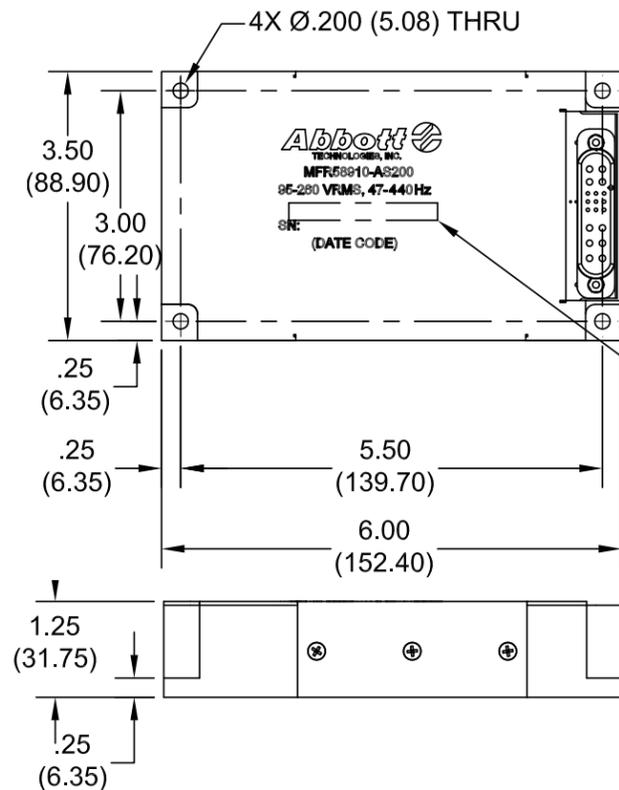
Features:

- Power Factor Correction
- Compliant with MIL-STD-461, CE101, and CE102
- Meets MIL-S-901 (High Impact Shock)
- Meets applicable MIL-STD-810
- AM200 fully sealed to meet IP65

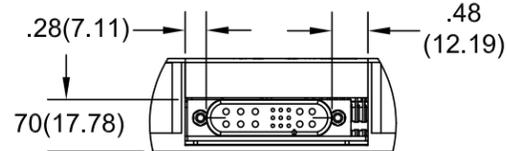
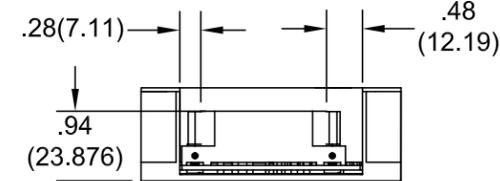
(Optional connectors available to meet IP67)

Options available:

- Droop (Zero Wire) Current Sharing
- Internal ORing Diode



ALTERNATE HORIZONTAL CONNECTOR CONFIGURATION



ALTERNATE HORIZONTAL CONNECTOR CONFIGURATION

INPUT: 95-260 VRMS, 47-440 Hz
OUTPUT MODEL

12VDC @ 16.67A	AS200S12
13.6VDC @ 14.7A	AS200S13.6
15VDC @ 13.33A	AS200S15
24VDC @ 8.33A	AS200S24
28VDC @ 7.14A	AS200S28
48VDC @ 4.17A	AS200S48

J1 (POSITRONIC INDUSTRIES P/N GFSH109M3H) SEE SHEET 3 FOR PIN FUNCTION.
(POSITRONIC INDUSTRIES P/N GFSH109M4B HORIZONTAL CONNECTOR)

ABBOTT MODEL AS200 INPUT/OUTPUT CONNECTOR PIN ASSIGNMENT

POSITRONIC INDUSTRIES P/N GFSH109M3H

PIN #	FUNCTION
1	AC IN LINE
2	AC IN LINE
3	AC IN (NEUTRAL)
4	AC IN (NEUTRAL)
5	CHASSIS GND
6	CHASSIS GND
7	NINHIBIT
8	NENABLE
9	(SPARE)
10	DCOK

PIN #	FUNCTION
11	(SPARE)
12	(SPARE)
13	+ SENSE
14	- SENSE
15	(SPARE)
16	+ OUTPUT
17	+ OUTPUT
18	- OUTPUT
19	- OUTPUT

Call our Technical Support Department
with questions: (818) 504-0644

Rock Solid Reliability for over 50 years.



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- SBA Certified Woman-Owned
- Minority Business Enterprise (MBE)
- HUBZone Certified
- ISO9001 and AS9100 Certified
- QPL Certified products



- NAICS Codes: 334416, 334419, 335311, 335999
- DUNS: 36-065-1954
- Cage Code: 58910



For Extreme Environments

- ✓ Power Factor Correction
 - ✓ Compliant with MIL-STD-461, CE101, and CE102
 - ✓ Meets MIL-S-901 (High Impact Shock)
 - ✓ Meets applicable MIL-STD-810
 - ✓ AM200 fully sealed to meet IP65 (Optional connectors available to meet IP67)
- Options:** Droop (Zero Wire) Current Sharing & Internal ORing Diode



Specifications:

AC Input:
95-260 VAC, 47-440Hz, Single Phase, Power Factor Corrected. Meets MIL-STD-1399, Section 300, Type 1 Requirements (Spike Voltage Test)

Efficiency:
80% Minimum (88% 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 on the Output Measured with a 20MHz bandwidth

Temperature Range:
Storage, Transport and Handling: -50°C to + 85°C
Baseplate Temperature: -40°C to +70°C with no Power Derating

Overtemperature Protection:
Output shut down if maximum case temperature limit is exceeded

Isolation:
Input to Output: 1500 VDC
Input to Case: 1500 VDC
Output to Case: 500 VDC

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

Remote Error Sensing: Standard
Control Features: INHIBIT, ENABLE (TTL LOW = TRUE)

Built-in Test Feature:
Output Fault Alarm (TTL Low = FAULT)

Reliability:
MTBF 236,072 calculated per MIL-HDBK-217Fn.2/25C/Full Load Ground Benign

Electromagnetic Compatibility:
Meets the following MIL-STD-461 requirements: CE101, CE102

Outline Dimensions:
Refer to Mechanical drawings on opposite and back page

Weight:
2.5lbs max (1.7lbs max for AS200)

Environmental Conditions:
Shock Test: Unit meets MIL-S-901 requirements (lightweight)
Vibration Test: Unit meets MIL-STD-167, Type 1 requirements
Humidity Test: Power supply operates without any evidence of degraded performance in non-condensing relative humidity up to 95%

Ordering Information:

Model Number System

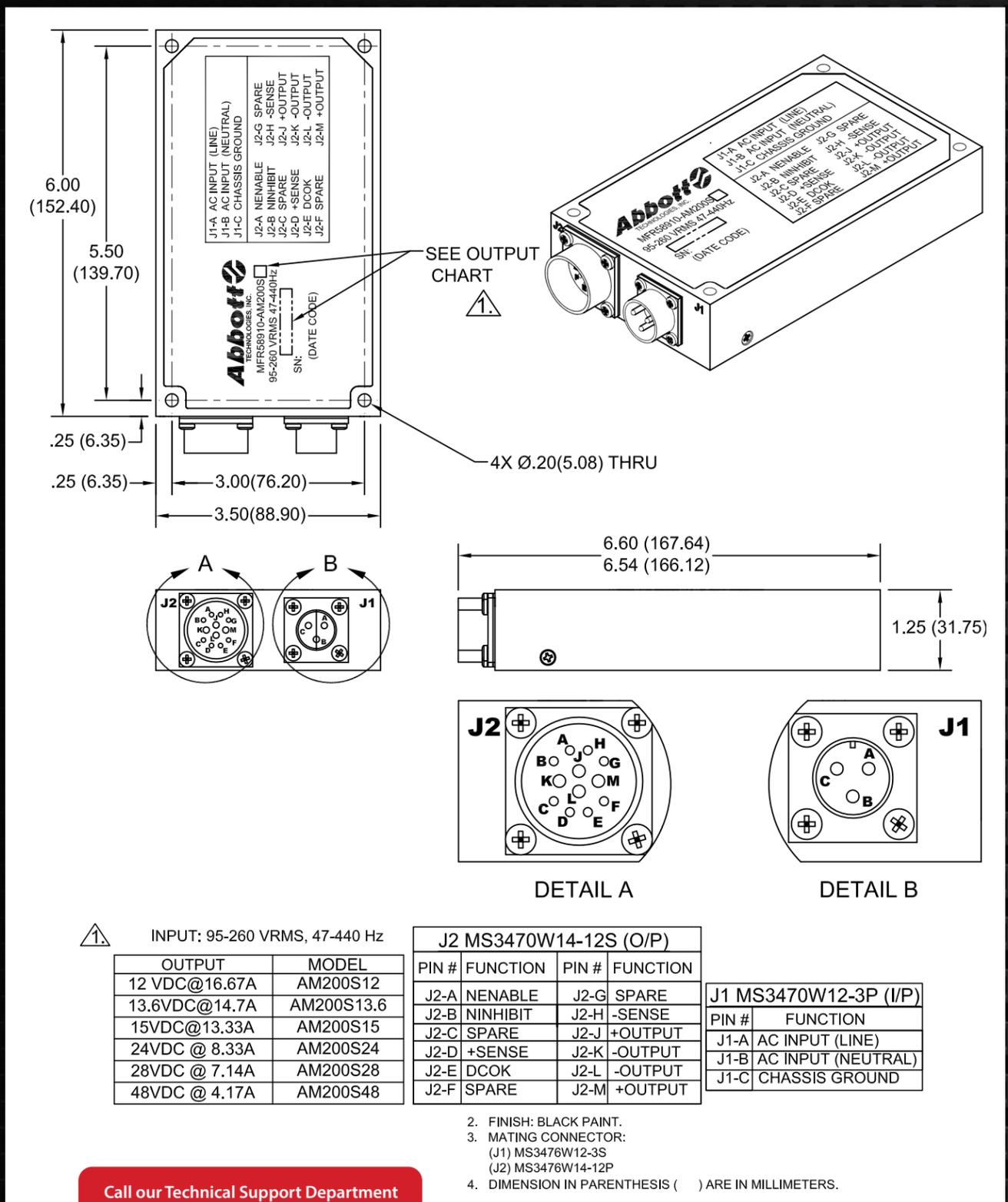
AS200 S 28

- Model Family (**AM200** or **AS200** - 200 Watt Output)
- S** = Standard Connector (Unit meets IP65 on AM200 only)
- M** = Fully Sealed Waterproof Connector (Unit meets IP67 on AM200 only)
- Voltage Output (see chart to right for Voltage options and Max Current)
- Blank** = Vertical Connector (Standard) or
- H** = Horizontal Connector (AS200 only)

Example as shown above: AS200 - 200 Watt Output with Standard Connector, 28 Volt, Vertical Connector

Maximum Current Output Rating

Output Voltage	Max Current
12V	16.66A
13.6V	14.7A
15V	13.33A
24V	8.33A
28V	7.14A
48V	4.17A



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(See reverse side for AS200 Mechanical Drawing)