

WHEN RELIABILITY IS IMPERATIVE™



AM200

AS200

## AM200/AS200 200 Watt AC-DC Switchers

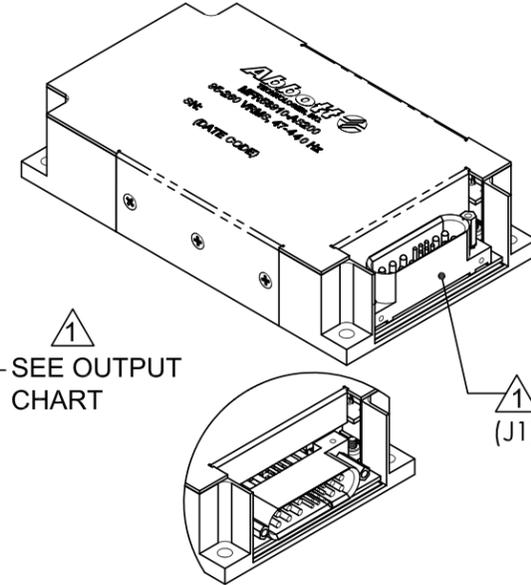
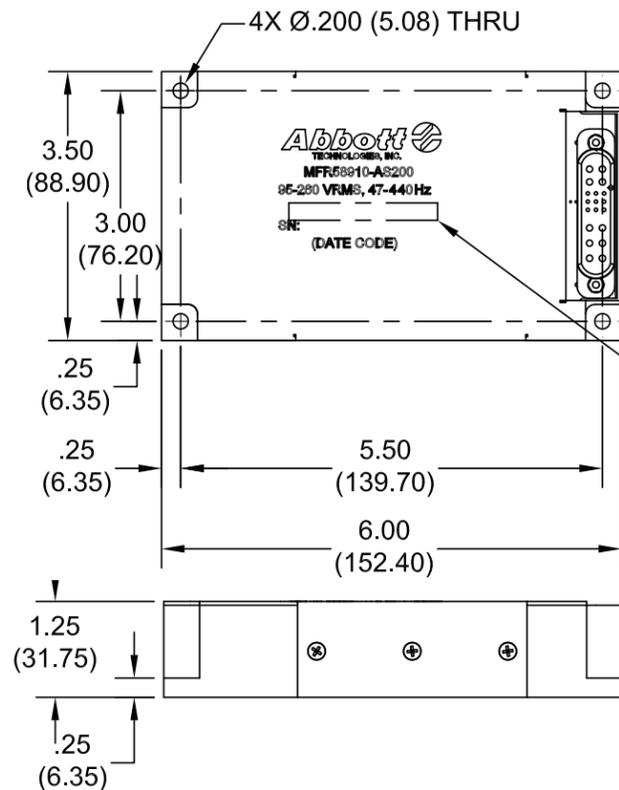
### Features:

- 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

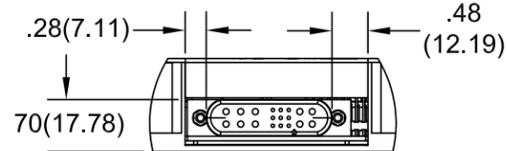
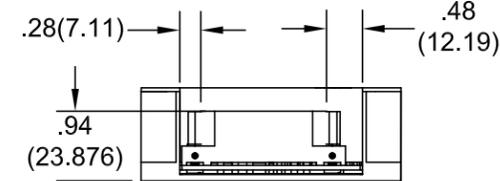
(Optional connectors available to meet IP67)

### 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	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	PIN # FUNCTION
1 AC IN LINE	11 (SPARE)
2 AC IN LINE	12 (SPARE)
3 AC IN (NEUTRAL)	13 + SENSE
4 AC IN (NEUTRAL)	14 - SENSE
5 CHASSIS GND	15 (SPARE)
6 CHASSIS GND	16 + OUTPUT
7 NINHIBIT	17 + OUTPUT
8 NENABLE	18 - OUTPUT
9 (SPARE)	19 - OUTPUT
10 DCOK	

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

Rock Solid Reliability for over 50 years.



8203 Vineland Ave | Sun Valley, CA 91352  
(818) 504-0644 | Sales (800) 367-8200  
Technical Support (818) 504-0644

AbbottTechnologies.com

©2017 Abbott Technologies, Inc. AT 2987B 6/2017



- 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

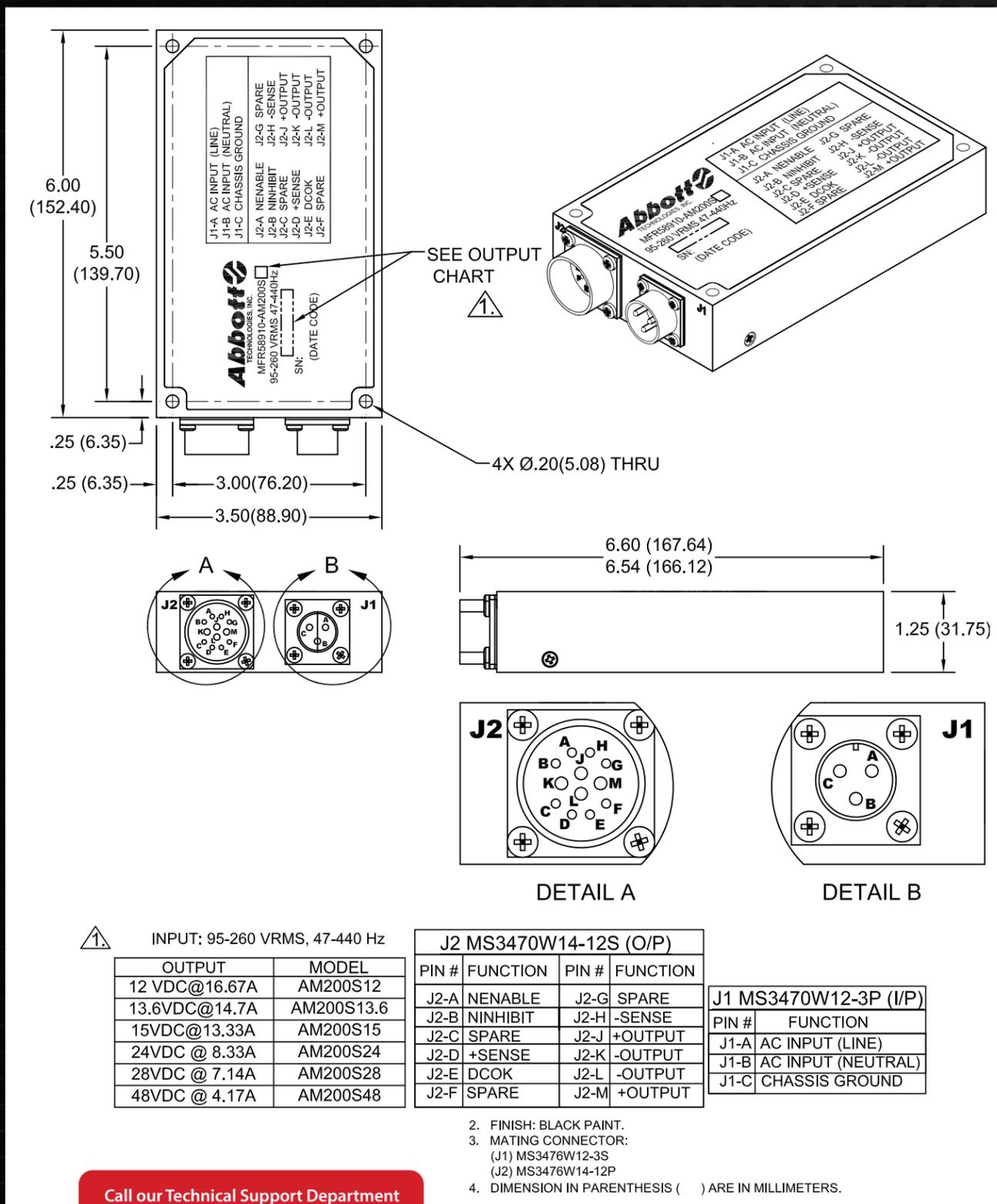
**AS200 S 28**

- 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



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

(See reverse side for AS200 Mechanical Drawing)