Abbott TECHNOLOGIES®

WHEN RELIABILITY IS IMPERATIVE™

AS200

200 WATT AC TO DC POWER FOR RUGGED ENVIRONMENTS

HIGH EFFICIENCY, COMPACT SIZE.

Currently serving in many active programs, the AS200 Series is proven to perform in extreme environments.

Featuring full Power Factor Correction in a rugged, compact chassis, the AS200 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. 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.

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:
Shock test: MIL-S-901 requirements (light weight).
Vibration test: MIL-STD-167, type 1 requirements.
Humidity: Power supply operates without any evidence of degraded performance in non-condensing relative humidity up to 95%. For condensing-environment requirements, consult ATI for the applicable configuration.

REMOTE ERROR SENSING:
Standard.

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

BUILT-IN TEST FEATURE:
OUTPUT FAULT ALARM
(TTL LOW=FAULT).

REV 20261111

**Specifications subject to change without notice*

MADE IN THE USA

AS9100D

SBA WOSB
Woman Owned Small Business

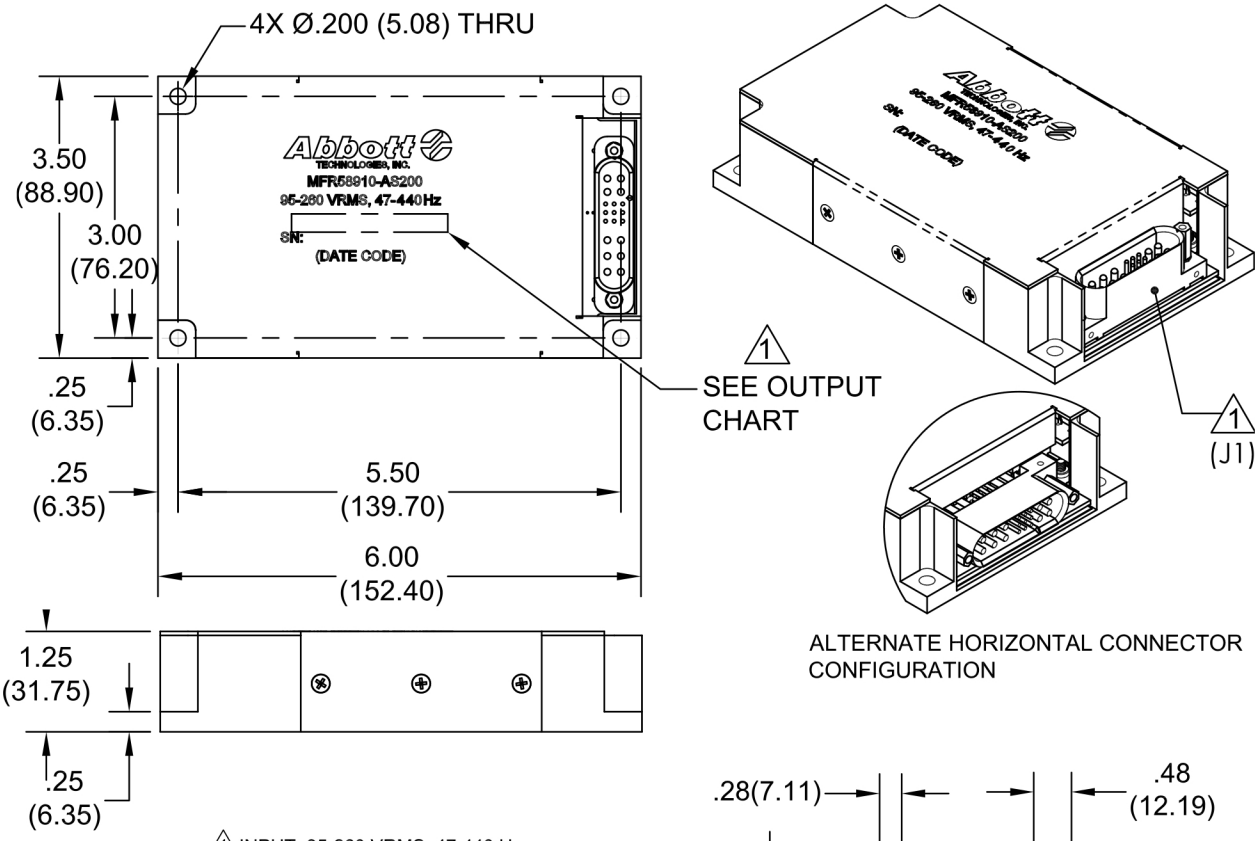
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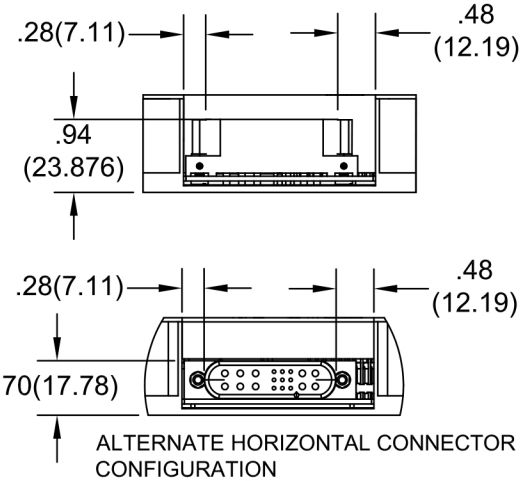
AS200

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MECHANICAL DRAWING:



ALTERNATE HORIZONTAL CONNECTOR CONFIGURATION



ALTERNATE HORIZONTAL CONNECTOR CONFIGURATION

1 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 INPUT/OUTPUT CONNECTOR PIN-ASSIGNMENT TABLE BELOW.
(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

AS200S 28 H

OUTPUT VOLTAGE:
(SEE AVAILABLE OUTPUTS)

CONNECTOR:
H = HORIZONTAL ORIENTATION

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