

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. 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:

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% (Select "C" option for 100% condensing environment).

REMOTE ERROR SENSING:

Standard.

CONTROL FEATURES:

"INHIBIT," "ENABLE"
(TTL LOW=TRUE).

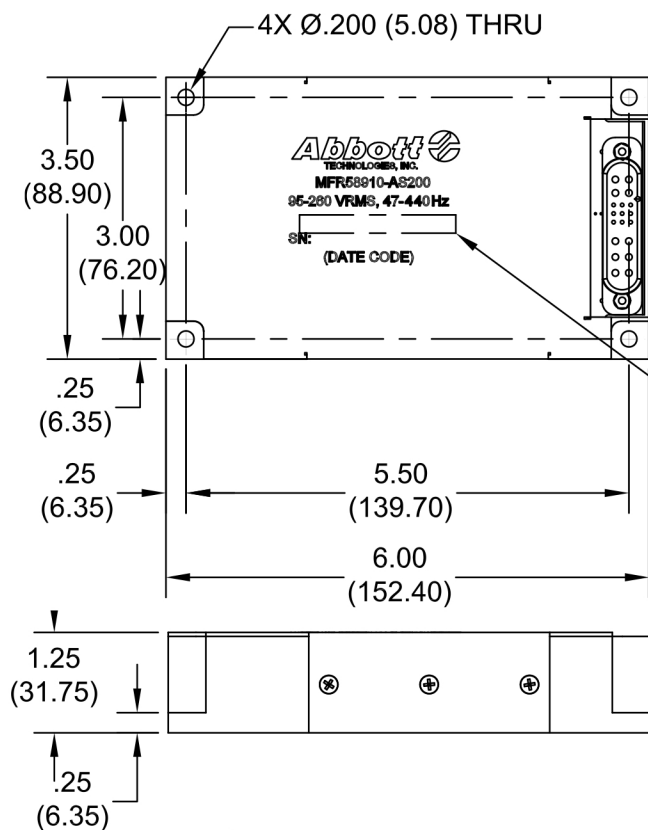
BUILT-IN TEST FEATURE:

OUTPUT FAULT ALARM
(TTL LOW=FAULT).

REV 20211015

*Specifications subject to change without notice

MECHANICAL DRAWING:



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

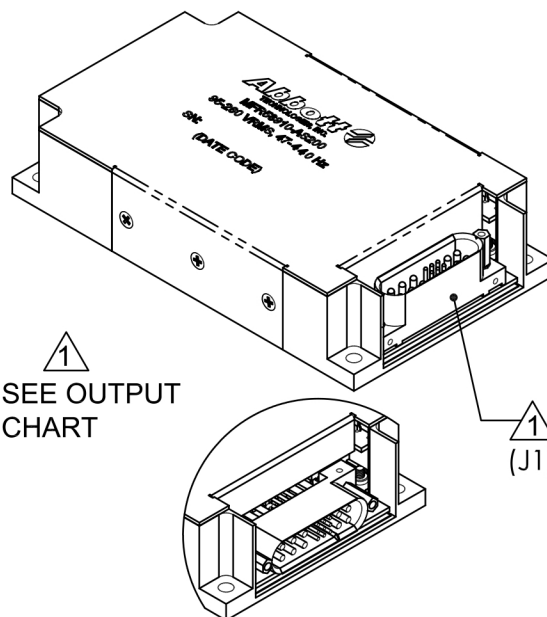
OUTPUT	MODEL
12VDC @ 16.67A	AS200S12
13.6VDC @ 14.7A	AS200S13.6
15VDC @ 13.33A	AS200S15
24VDC @ 8.33A	AS200S24
28VDC @ 7.14A	AS200S28
48VDC @ 4.17A	AS200S48

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

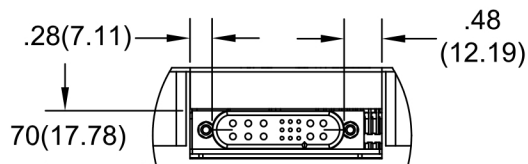
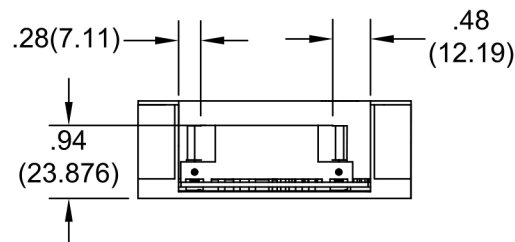
ABBOTT MODEL AS200
INPUT/OUTPUT CONNECTOR PIN ASSIGNMENT
POSITRONIC INDUSTRIES P/N GFSH109M3H

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



ALTERNATE HORIZONTAL CONNECTOR CONFIGURATION



ALTERNATE HORIZONTAL CONNECTOR CONFIGURATION

AS200S 28 H

OUTPUT VOLTAGE:
(SEE AVAILABLE OUTPUTS)

CONNECTOR:
H = HORIZONTAL ORIENTATION