

500 Watt Enclosed AC-DC Switchers for Extreme Environments

FEATURES

- Power Factor Correction
- Fully compliant with MIL-STD 461D, CE101, CE102
- Meets MIL-S-901 (high-impact shock)
- Meets MIL-STD-810F
- FCC 20780 class A EMI compliance
- Fully sealed to meet IP65
- Meets MIL-STD-1399 (spike voltage test)



SPECIFICATIONS

AC INPUT:

95-260 VAC 47-880 Hz single phase. Power factor corrected. Meets MIL-STD-1399, Section 300, type I requirements (spike voltage test).

EFFICIENCY:

80% minimum or greater.

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 combines ripple and noise does not exceed 2% of nominal on the output measured with a 20 MHz bandwidth.

OPERATING TEMPERATURE RANGE:

Storage, transportation and handling: - 50° to +85°C.
Ambient temperature: -40°C to +80°C baseplate with no power derating.

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 is nominally set at 120% of full load to reduce voltage. The output voltage automatically restores to normal when the short is removed.

INPUT PROTECTION:

Internal fuse. In-rush current limiting.

REMOTE ERROR SENSING: Standard.

CONTROL FEATURES:

"INHIBIT", "ENABLE" (STANDARD) (TTLLOW = TRUE)

BUILT-IN-TEST FEATURE:

OUTPUT FAULT ALARM (TTLLOW = FAULT)

RELIABILITY:

MTBF 40,000 hours calculated per MIL-HDBK-217F in naval sheltered environment.

ELECTROMAGNETIC COMPATIBILITY:

Meets the following MIL-STD-461D requirements: CE101, CE102.

OUTLINE DIMENSIONS:

Refer to mechanical drawings.

WEIGHT: 4-5 lbs typical.

ENVIRONMENTAL CONDITIONS:

Shock test: Unit meets MIL-S-901 requirements (light weight).

Vibration test: Unit meets MIL-STD-167, type I requirements.

Humidity: Power supply operates without any evidence of degraded performance in non-condensing relative humidity up to 95%.

MAXIMUM OUTPUT CURRENT RATINGS

Output Voltage	Output Current
12V	35.0A*
13.6V	35.0A*
15V	33.3A
24V	20.8A
28V	17.9A
48V	10.4A

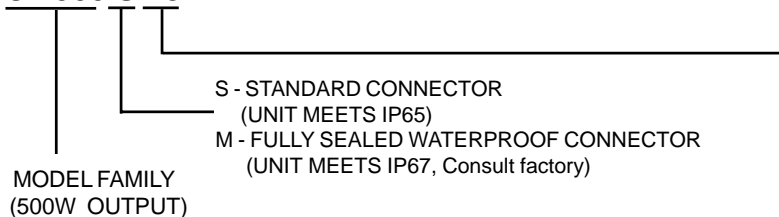
VOLTAGE OUTPUT

12 = 12 VDC
13.6 = 13.6VDC
15 = 15 VDC
24 = 24 VDC
28 = 28 VDC
48 = 48 VDC

*Output power limited by connector current rating. Please contact factory for alternative connector information.

MODEL NUMBER SYSTEM

CM500 S 28



Specifications are subject to change without notice



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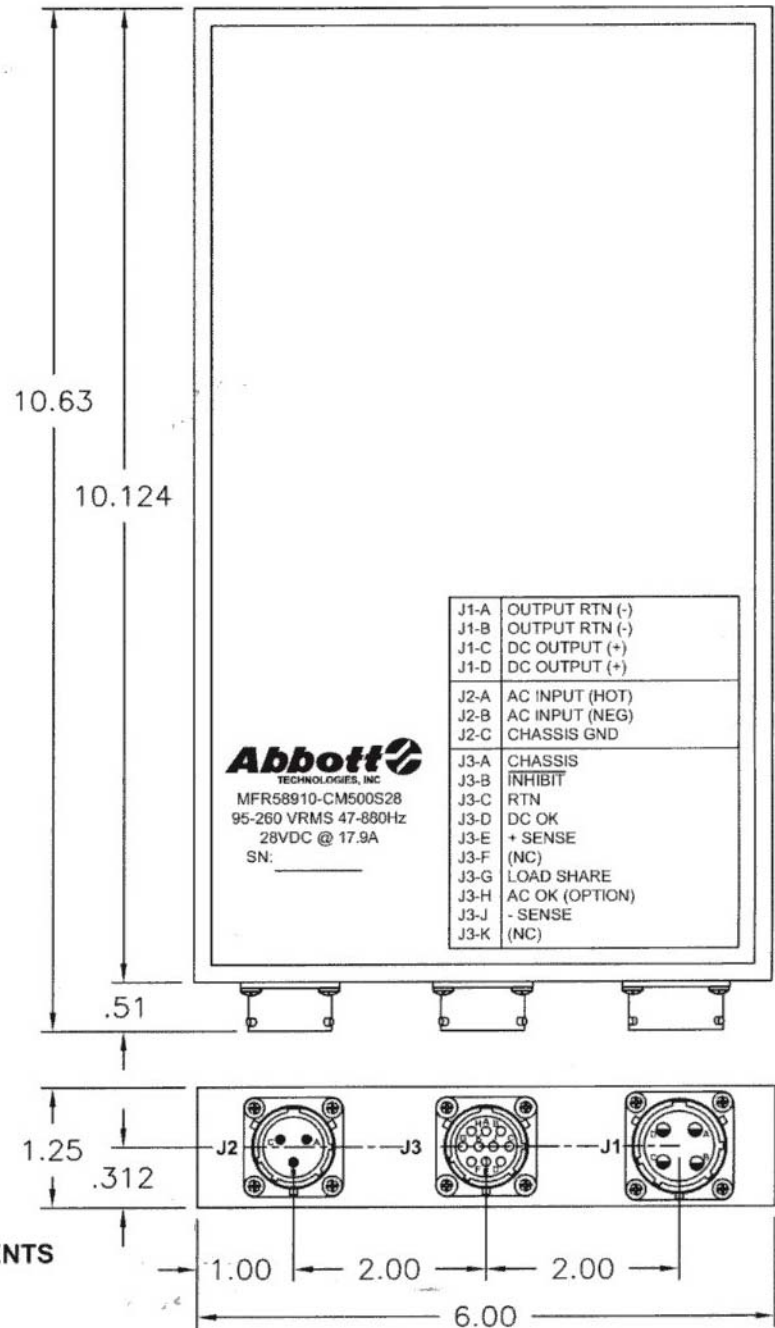
Call us toll-free **1-800-367-8200**

or visit us on-line at: **www.abbott-tech.com**

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MECHANICAL DIMENSIONS

(Standard Connector)



NOTES UNLESS OTHERWISE SPECIFIED

1. J1 = MS3470W14-4S / PT06E-14-4P
 J2 = MS3470W12-3P / PT06E-12-3S
 J3 = MS3470W12-10S / PT06E-12-10P
2. BUILT TO MEET ENVIROMENTAL REQUIREMENTS
 1EC IP-65.