



CM1000

CM1000

1000 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
 - CM1000 fully sealed to meet IP65
- (Optional connectors available to meet IP67)*

Options available:

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

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
- ✓ Fully sealed to meet IP65 (Optional connectors available to meet IP67)

Options: Droop (Zero Wire) Current Sharing,
Forced Current Sharing (up to 4 modules for a total of 4,000 watts)
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
Ambient Temperature:
-40°C to 70°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. Output is latched
under short circuit condition. Auto-recovery
from short circuit option is available.

Remote Error Sensing:
Standard

Input Protection:
Internal Fuse

Control Features:
INHIBIT (TTL LOW = TRUE)



Reliability:
MTBF 124,545 calculated per MIL-HDBK-
217Fn.2/25C/Full Load Ground Benign
Environment

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

Outline Dimensions:
Refer to Mechanical drawings on
opposite page

Weight:
5.5lbs Typical

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

CM1000 S 28

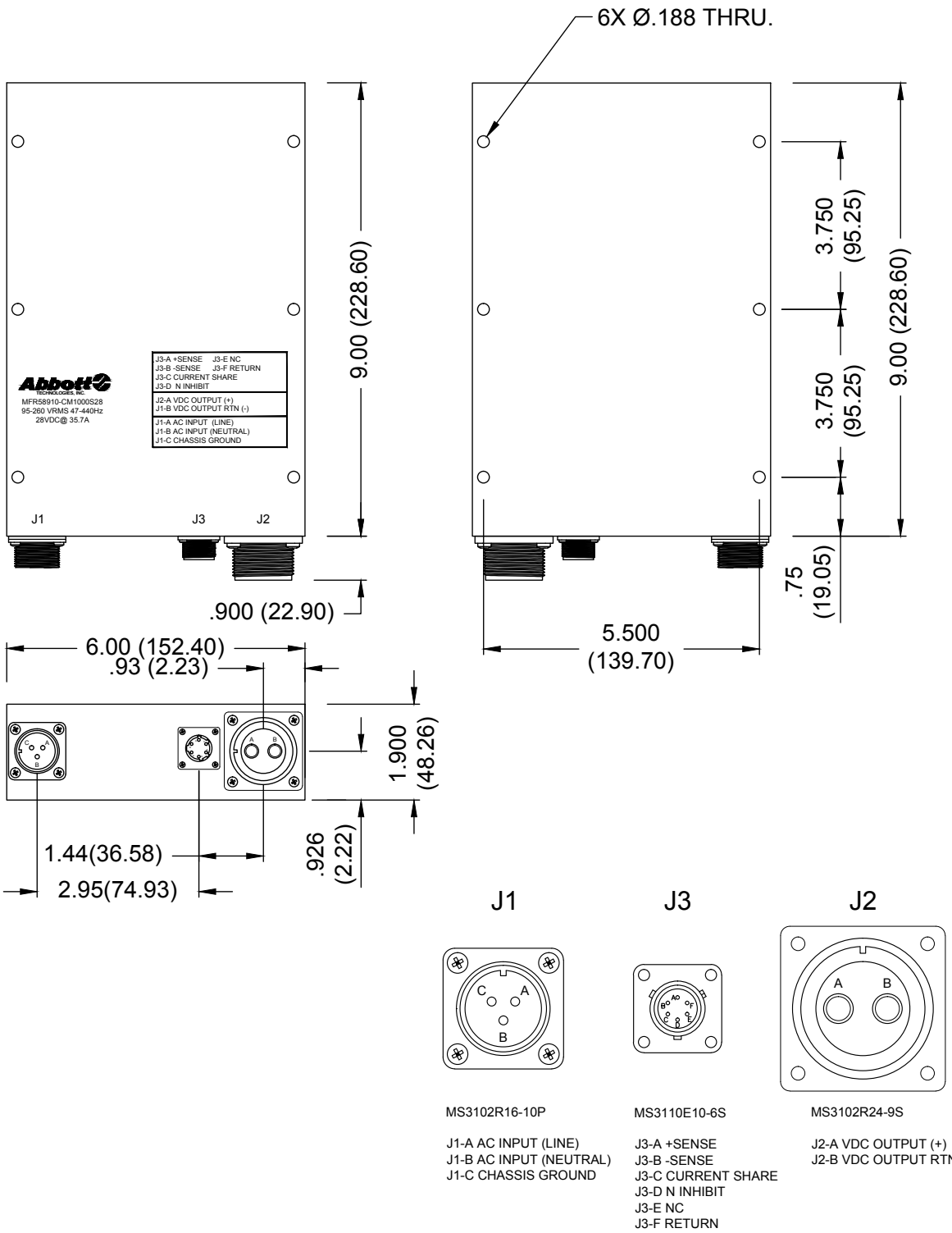
- Model Family (**CM1000** = 1000 Watt Output)
- S** = Standard Connector (Unit meets IP65) or
- M** = Fully Sealed Waterproof Connector (Unit meets IP67)
- C** = Condensing Humidity Environment
- 28** = Voltage Output (see chart to right for Voltage options and Max Current)

Example as shown above: CM1000 - 1000 Watt Output with
Standard Connector, 28 Volt

Maximum Current Output Rating

Output Voltage	Max Current
12V	75A*
13.6V	73.5A
15V	66.7A
24V	41.7A
28V	35.7A
48V	20.8A

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



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

Any specifications subject to change without notice.

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