



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.



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

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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**

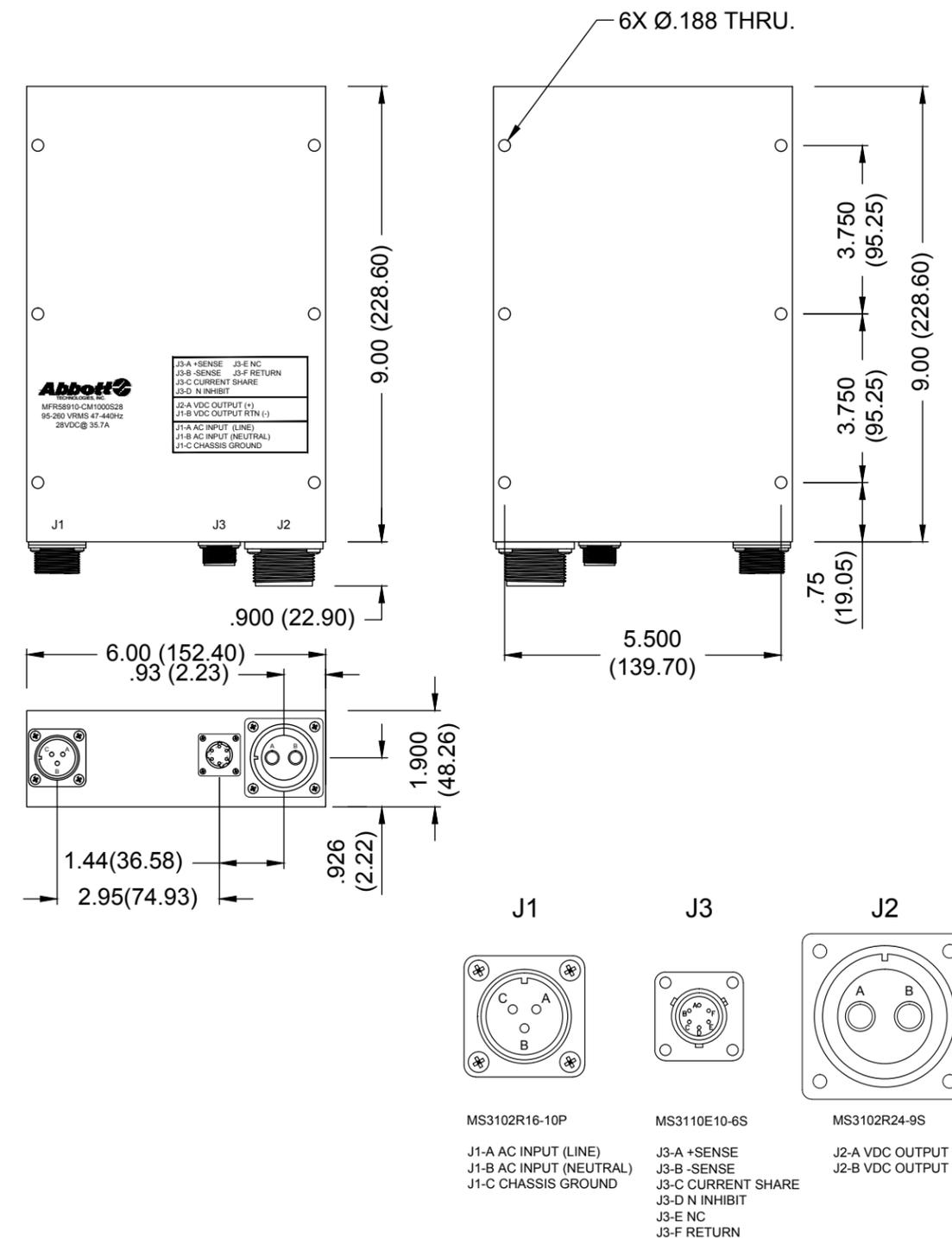
- Model Family (**CM1000** = 1000 Watt Output)
- S** = Standard Connector (Unit meets IP65) or
- M** = Fully Sealed Waterproof Connector (Unit meets IP67)
- C** = Condensing Humidity Environment
- Voltage Output (see chart to right for Voltage options and Max Current)

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.