

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

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



WHEN RELIABILITY IS IMPERATIVE™



CM500

CS500

## CM500/CS500

### 500 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
- CM500 fully sealed to meet IP65  
(Optional connectors available to meet IP67)

#### Options available:

- Droop (Zero Wire) Current Sharing
- Internal ORing Diode (available on CS500 only)

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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
  - ✓ CM500 fully sealed to meet IP65 (Optional connectors available to meet IP67)
- Options: Droop (Zero Wire) and Forced (Single) Current Sharing & Internal ORing Diode (only available on the CS500)



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:**  
-50°C to + 85°C
- 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. The output voltage automatically restores to normal when the short is removed.
- Remote Error Sensing:**  
Standard
- Input Protection:**  
Internal Fuse
- Control Features:**  
INHIBIT (TTL LOW = TRUE)

- Built-in Test Feature:**  
Output Fault Alarm (TTL Low = FAULT)
- Reliability:**  
MTBF 15,438 calculated per MIL-HDBK-217Fn.2/25C/Full Load Naval Sheltered Environment

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

- Outline Dimensions:**  
Refer to Mechanical drawings on opposite and back page

- Weight:**  
5lbs max

- 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

CS500 S 28

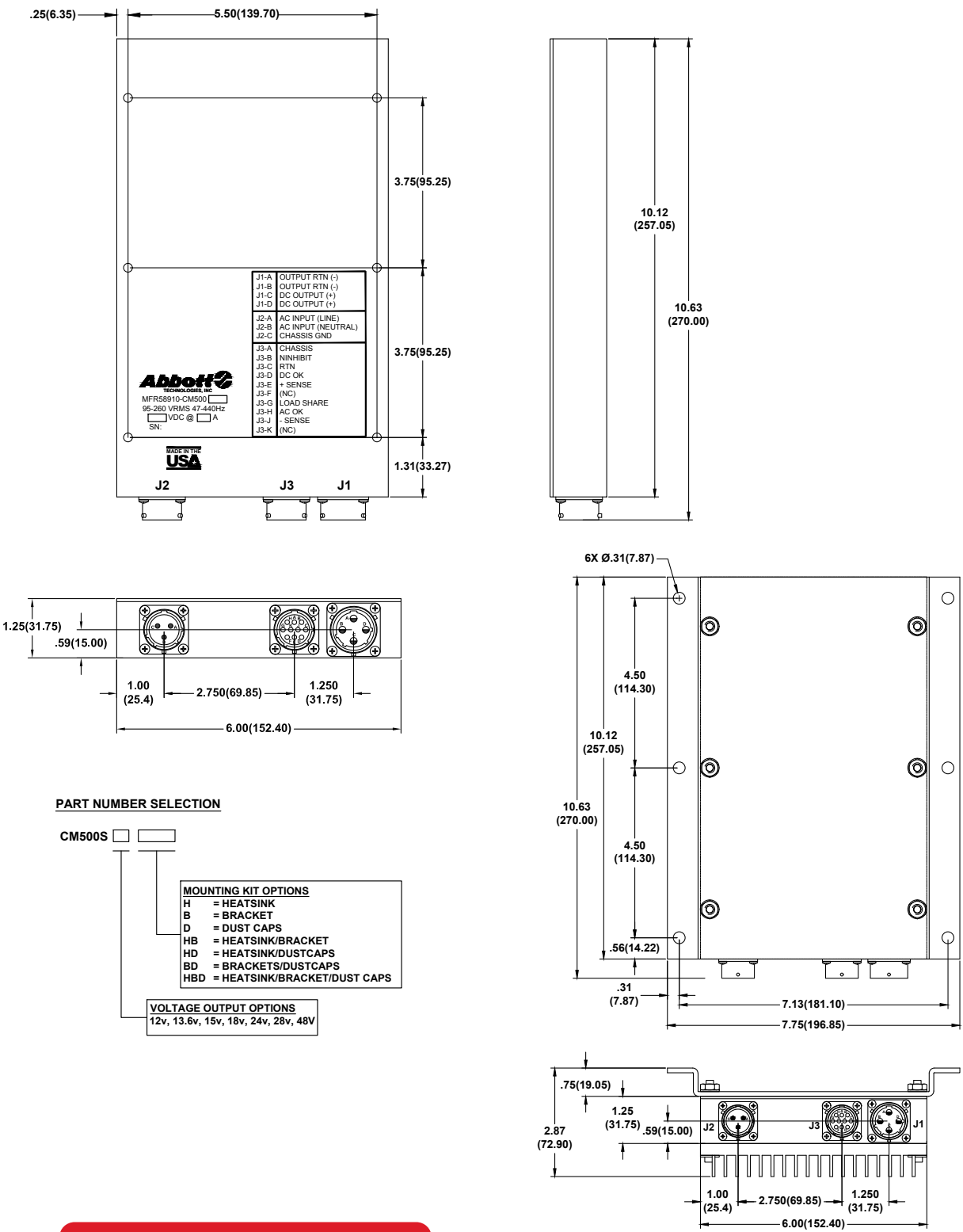
- Model Family (CM500 or CS500 - 500 Watt Output)
- S = Standard Connector (Unit meets IP65) or  
M = Fully Sealed Waterproof Connector (CM500 only - Unit meets IP67)
- Voltage Output (see chart to right for Voltage options and Max Current)

Example as shown above: CS500 - 500 Watt Output with Standard Connector, 28 Volt

Maximum Current Output Rating

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

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



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(See reverse side for CS500 Mechanical Drawing)