



HIGH EFFICIENCY, COMPACT SIZE.

Currently serving in many active programs, the CM1000 Series is proven to perform in extreme environments.

Featuring full Power Factor Correction in a rugged, compact chassis, the CM1000 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.

The CM1000 series is IP65 sealed (IP67 available).

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.(88% typ, 28 VDC Model at 100% load)

LINE REGULATION:

 $\pm 1\%$ of nominal over the full range of line input voltage.

LOAD REGULATION:

 $\pm 1\%$ 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

ISOLATION:

Input to output: 1500 VDC Input to case: 1500 VDC Output to case: 500 VDC

TEMPERATURE RANGE:

Storage: -50° C to $+85^{\circ}$ C. Operating temperature: -40° C to $+70^{\circ}$ 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 (latch functionality available).

INPUT PROTECTION:

Internal fuse; In-rush current limiting; Transient protection

OVER TEMPERATURE PROTECTION:

Output shut down if maximum case temperature limit is exceeded.

REMOTE SENSING: Standard.

CONTROL FEATURES: "INHIBIT" (TTL LOW=TRUE).

BUILT-IN TEST FEATURE: OUTPUT FAULT ALARM (TTL LOW=FAULT).

RELIABILITY:

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

WEIGHT: 5.5 lbs typical.

ENVIRONMENTAL CONDITIONS: MIL-STD-810

Shock: Method 516.6, Procedure IV, MIL-S-901 requirements (light weight) Vibration: Method 514.5, MIL-STD-167, type 1 requirements

Humidity: Method 507 (Power supply operates without any evidence of degraded performance in non-condensing relative humidity up to 95% (Select "C" option for 100% condensing environment) Altitude: Method 500.4, Procedure I & II Salt Fog: Method 509.4 Altitude: Method 500.4, Procedure I & II High Temperature: Method 501.4, Procedure I & II

Low Temperature: Method 502.4, Procedure I

Sand and Dust: Method 510.4, Procedure I & II

Explosive Atmosphere: Method 511.4, Procedure

Acceleration: Method 513.5, Procedure I & II

*Specifications subject to change without notice

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HUBZone

SBAWOSB

AS9100D

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