



# LOW VOLTAGE MULTI-OUTPUT POWER SUPPLY MODULE



*Low Voltage, Low Profile,  
Multi-Output (3 Outputs Standard)  
Power Supply Module (Up to 125W)*

## DESCRIPTION

CME's high-density multi-output, nominal 28V input DC-DC power supply modules are designed for mission critical applications while providing high reliability power in adverse environments especially for military, telecommunications or industrial requirements.

This family of power modules provides quality power with a variety of single or multiple output configurations, in a light weight modular package. These low voltage modules meet the demand for excellent power stability during extreme EMI/EMC conditions and severe environmental conditions.

The DC-DC Converter provides 22.0 to 30.0 Vdc Input, 28Vdc nominal, and has input adjustable current limit. The module provides a differential signal indicating the state of the output voltage.

Utilizing the latest in power switching technology these high density light weight power modules can be used in a number of stackable and configurable power bus applications.

## APPLICATIONS

CME's high-density multi-output power modules are ideal for military, telecommunications, and industrial power applications. The swappable power supply module (PSM) can be used for aircraft mission payloads.

Weighing less than 0.8 pounds (0.363 kg), these highly configurable and stackable modules provide a high degree of system flexibility where high reliability, small size and light weight are essential.

## KEY FEATURES & BENEFITS

- Modules can be customized to fit custom power configuration requirements
- Excellent power quality under extreme environments
- Available as low voltage regulated supply, or power conversion (AC/DC & DC/DC)
- Adaptive stackable power Bus configuration
- Outputs are electrically and thermally protected
- Over-voltage protection circuitry; current limit protected on each output voltage rail; external power supply output voltage shutdown
- External Synchronization capability available.

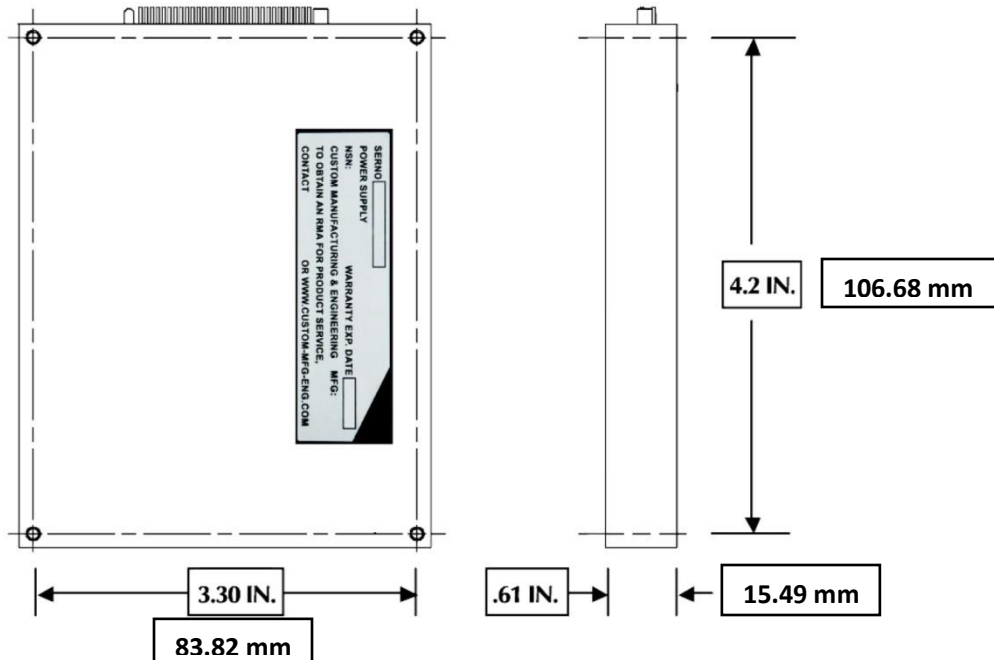
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## SPECIFICATIONS

<b>INPUT POWER</b>	Typically 28 VDC (other input ratings available) Input current <4.3A maximum @ 28 VDC Input power sensing for pass/fail reporting
<b>OUTPUT POWER</b>	Combination of up to 3 – typical (Multiple) Example: +8.2 VDC, -8.2 VDC, & +5.2 VDC (5.0A max per output-type)
<b>PROTECTION</b>	Electrical – (O.V., U.V., OC), Self-recovery current limiting isolated input/outputs. Thermal – internal over temperature protection; and external port control
<b>LINE/LOAD REGULATION</b>	1% (no load to full load, -67F (-55°C) to 185°F (85°C))
<b>RIPPLE/NOISE</b>	50mVp-p, typical (max 1%)
<b>TEMPERATURE</b>	-67°F (-55°C) to 185°F (85°C) operating -85°F (-65°C) to 221°F (105°C) non-operating
<b>ENVIRONMENTAL</b>	Sea level to 60,000 ft. operating, 100 percent humidity
<b>EFFICIENCY</b>	Up to 80%
<b>SIZE/WEIGHT</b>	Height: 4.53 in. (115.062 mm) (max) Width: 3.54 in. (89.916 mm) (max) Depth: 0.61 in. (15.49 mm) (max) Weight: <0.8 pounds (0.363 kg)
<b>RELIABILITY</b>	MTBF of 45,000 hrs (min), useful life >15 yr.
<b>COMPLIANCE</b>	MIL-STD-704E, MIL-HDBK-5400, MIL-HDBK-454
<b>OPTIONS</b>	Can be customized for many output combinations; or single and dual outputs

## OTHER FEATURES

Enclosed Modular design in an aluminum case with commercially available 30 pin connector.



**PIN ASSIGNMENT (EXAMPLE)**

Pin Number	Input / Output	Signal Name
1	O	-8.2 Vdc Output #1
2	O	-8.2 Vdc Output #1 Rtn
3	O	-8.2 Vdc Output #1
4	O	-8.2 Vdc Output #1 Rtn
5	–	Spare
6	O	+5.2 Vdc Output #2
7	O	+5.2 Vdc Output #2 Rtn
8	O	+8.2 Vdc Output #3
9	O	+8.2 Vdc Output #3 Rtn
10	–	Spare
11	O	Inhibit Rtn
12	I	+28 Vdc Rtn
13	I	+28 Vdc Rtn
14	I	+28 Vdc
15	I	+28 Vdc
16	–	Spare
17	–	Spare
18	O	+5.2 Vdc Output #2
19	O	+5.2 Vdc Output #2 Rtn
20	O	Volts Good
21	O	Volts Good Bar
22	O	+8.2 Vdc Output #3
23	O	+8.2 Vdc Output #3 Rtn
24	O	Volts Good Rtn
25	I	Inhibit
26	I	+28 Vdc Rtn
27	I	+28 Vdc Rtn
28	I	+28 Vdc
29	I	+28 Vdc
30	I	Chassis Ground