

AC-DC MIL-COTS

PRODUCT # SW0003000-28

90–160 VAC
Input Voltage

60–400 Hz
Frequency

3
Phase

28 VDC
Output Voltage

1000 W
Output Power

1
of Outputs



Actual product appearance may vary.

PRODUCT DESCRIPTION

This AC-DC power supply is designed to perform and protect in harsh, military environments. It is environmentally sealed to meet IP67 when mated with connectors and cable assemblies. It is densely packaged, weighing approximately 10 lb, and is base plate cooled. This solution is designed to meet the input power requirements of MIL-STD-704 and to perform in environments where aircraft electric power is used. This power supply has the field-proven quality and reliability that comes from ACT products.

ENVIRONMENT

Designed to meet MIL-STD-810



TEMPERATURE

-40°C to +71°C operating, -40°C to +85°C non-operating



HUMIDITY

Up to 100% condensing with sealed mating connectors and cable assemblies attached



ALTITUDE

80,000 ft.



VIBRATION

Designed to meet NAVMAT P-9492 (random) and MIL-STD-202G, Method 201 (sinusoidal)



SHOCK

Designed to meet MIL-STD-202, Method 213, lateral 15g and vertical 30g



EMI

Designed to meet MIL-STD-461, CE102

FEATURES

- Single output of 28 V at 1000 W
- 90–160 VAC (V_{L-L}), three phase, 60–400 Hz input
- Designed to meet MIL-STD-704F
- Efficiency > 90% above 300 W
- Holdup > 50 ms at full load
- Current sharing up to 6 units is available
- 1U height
- Minimum power factor of 0.85 leading above 50% load
- Output current maximum of 42 A
- Ripple $\leq 1\%$
- Regulation < 1%, line and load
- Isolated input/output, input/chassis, output/chassis

CONTACT US



2001 Fulling Mill Road | Middletown, PA 17057
717.939.2300 | CAGE: 60642

ACTPower.com | 

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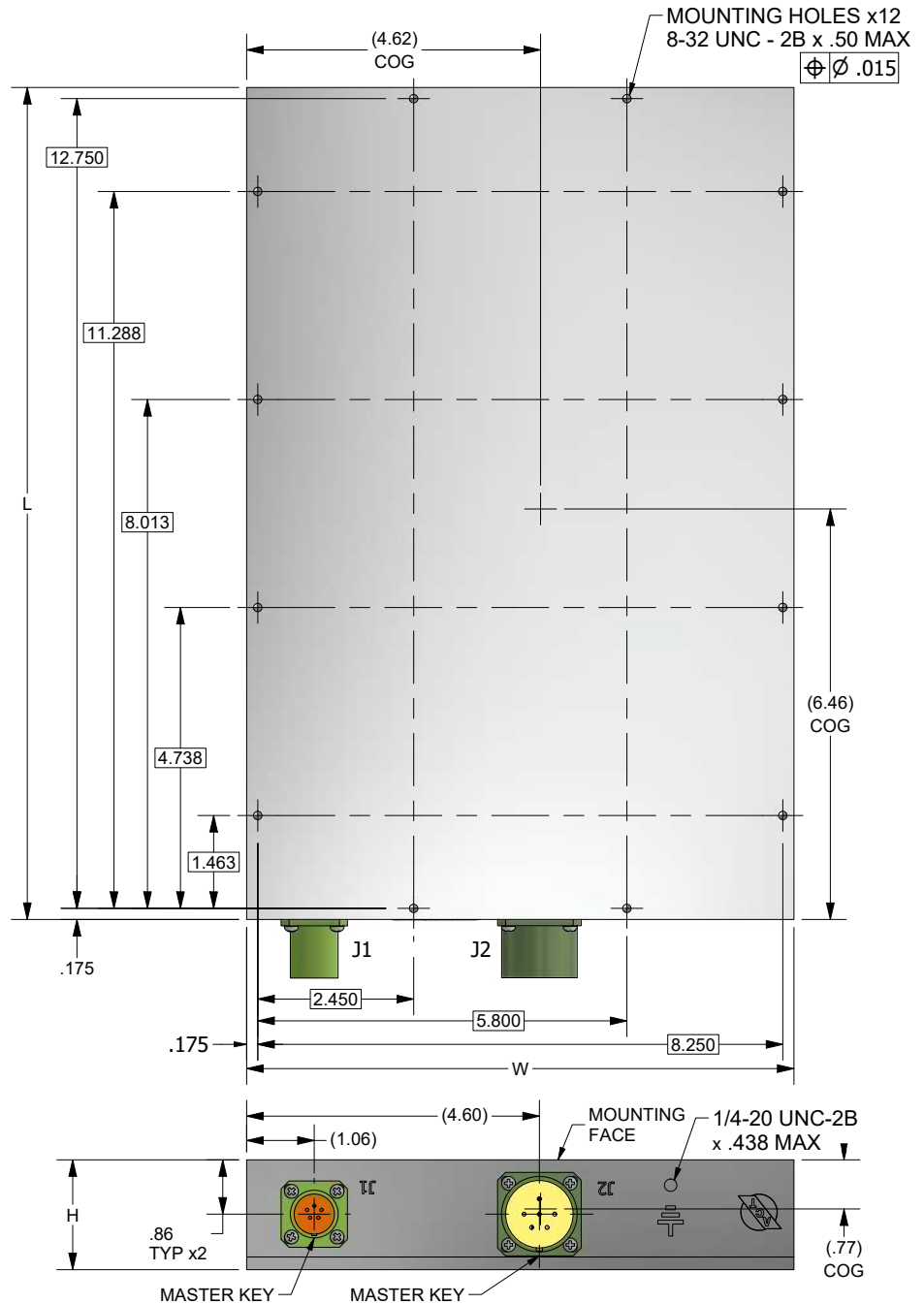
MECHANICAL INFORMATION

- 13.115" (L) x 8.615" (W) x 1.76" (H) Max
- Approx. 10 lb
- Clear Iridite, Chemically filmed in accordance with MIL-DTL-5541, Type 2, Class 1A
- Environmentally sealed to meet IP67 when mated with connectors and cable assemblies
- Alternative connector finishes may be available—contact us to learn more

CONNECTORS

J1 Input: D38999/20ZB5PN	
PIN	DESCRIPTION
A	ØA
B	N/C
C	ØB
D	N/C
E	ØC
Suggested Mate: D38999/26ZB5SN	

J2 Output: D38999/20ZE6SN	
PIN	DESCRIPTION
A	+ V _{OUT}
B	+ V _{OUT}
C	+ V _{OUT}
D	- V _{OUT}
E	- V _{OUT}
F	- V _{OUT}
Suggested Mate: D38999/26ZE6PN	



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COOLING

Operational base plate temperature -40°C to +71°C

ISOLATION & PROTECTIONS

ISOLATION

- Input/Output > 50 Megohms at 500 VDC
- Input/Chassis > 50 Megohms at 400 VDC
- Output/Chassis > 50 Megohms at 50 VDC

PROTECTION

Overtemperature, short circuit, overvoltage, and loss of phase protection with auto recovery



MAKE IT A MOTS

The right power solution helps keep equipment functioning properly in the field. MOTS, or Modified Off-The-Shelf, power supplies are adapted, ruggedized, and designed to meet the unique demands of your application.

The fast, budget-friendly answer for meeting your environmental requirements—ask us about making this power supply a MOTS.

SW0003 SERIES SELECTOR GUIDE

ACT Product #	V _{IN} (VAC)	Phase	Freq. (Hz)	# of Outputs	V _{OUT} (VDC)	Output Power (W)	Heatsink
SW0003000-24	90-160	3	60-400	1	24	1000	N
SW0003000-28	90-160	3	60-400	1	28	1000	N

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