

## AC-DC MIL-COTS

### PRODUCT # SW0004000-24

<b>92–138 VAC</b> Input Voltage	<b>47–63 Hz</b> Frequency	<b>1</b> Phase
<b>24 VDC</b> Output Voltage	<b>1200 W</b> Output Power	<b>1</b> # 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 8 lb, and is base plate cooled. This solution is designed to meet the input power requirements of MIL-STD-1399-300B and to perform in environments where naval electric power is used. Longer holdup is available upon special request. All ACT products feature our proven quality and are trusted to perform when it matters most.

## 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



### VIBRATION

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



### SHOCK

Designed to meet MIL-STD-202, Method 213, Test Condition J



### EMI

Designed to meet MIL-STD-461, CE101, and CE102

## FEATURES

- Single output of 24 V at 1200 W
- 92–138 VAC, single phase, 47–63 Hz input
- Designed to meet MIL-STD-1399-300B
- Efficiency > 89%
- Holdup > 20 ms at full load
- Current sharing up to 6 units is available
- 1U height
- Input current THD < 5% at full load
- Minimum power factor of 0.99 leading above 10% load
- Output current maximum of 52 A
- Ripple  $\leq 1\%$
- Regulation  $\pm 1\%$ , line and load
- Isolated input/output, input/chassis, output/chassis

CONTACT US



2001 Fulling Mill Road | Middletown, PA 17057  
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ACTPower.com | 

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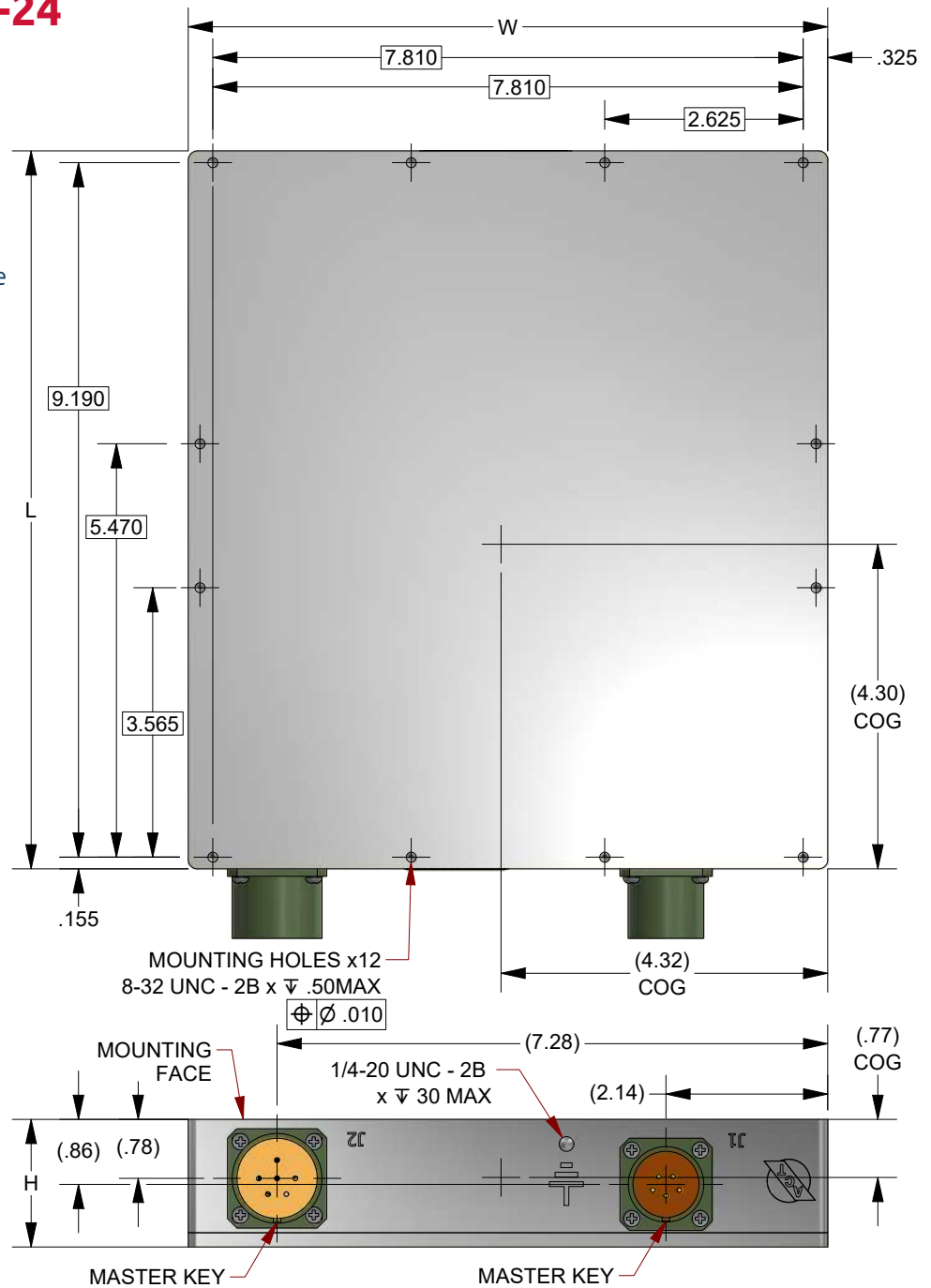
#### MECHANICAL INFORMATION

- 9.55" (L) x 8.50" (W) x 1.73" (H) Max
- Approx. 8 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: D38999/20WD5PN	
PIN	DESCRIPTION
A	V <sub>IN</sub> HOT
B	V <sub>IN</sub> NEUTRAL
C	V <sub>IN</sub> NEUTRAL
D	GND (Chassis)
E	V <sub>IN</sub> HOT
Suggested Mate: D38999/26WD5SN	

J2 Output: D38999/20WE6SN	
PIN	DESCRIPTION
A	+ V <sub>OUT</sub>
B	+ V <sub>OUT</sub>
C	+ V <sub>OUT</sub>
D	- V <sub>OUT</sub>
E	- V <sub>OUT</sub>
F	- V <sub>OUT</sub>
Suggested Mate: D38999/26WE6PN	



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#### COOLING

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

#### ISOLATION & PROTECTIONS

##### ISOLATION

- Input/Output > 10 Megohms at 1000 VDC
- Input/Chassis > 10 Megohms at 1000 VDC
- Output/Chassis > 10 Megohms at 50 VDC

##### PROTECTION

Overtemperature, short circuit, overvoltage, and overcurrent 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.

#### SW0004 SERIES SELECTOR GUIDE

ACT Product #	V <sub>IN</sub> (VAC)	Phase	Freq. (Hz)	# of Outputs	V <sub>OUT</sub> (VDC)	Output Power (W)	Heatsink
SW0004000-24	92-138	1	47-63	1	24	1200	N
SW0004000-24-01	92-138	1	47-63	1	24	1200	Y
SW0004000-28	92-138	1	47-63	1	28	1200	N
SW0004000-28-01	92-138	1	47-63	1	28	1200	Y

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