

## AC-DC MIL-COTS

### PRODUCT # SW2513000-24

<b>100–264 VAC</b> Input Voltage	<b>50–400 Hz</b> Frequency	<b>1</b> Phase
<b>24 VDC</b> Output Voltage	<b>400 W</b> Output Power	<b>1</b> # of Outputs



*Actual product appearance may vary.*

## PRODUCT DESCRIPTION

Built for performance and tested for reliability, this AC-DC power supply is designed to perform and protect in inhabited environments. It is environmentally sealed to meet IP67 when mated with connectors and cable assemblies. It is densely packaged, weighing approximately 6.75 lb, and is base plate cooled. This solution is designed to meet the input power requirements of MIL-STD-704F and to perform in environments where aircraft electric power is used.

## ENVIRONMENT

Designed to meet MIL-STD-810



### TEMPERATURE

-40°C to +75°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-461G, CE101, and CE102

## FEATURES

- Single output of 24 V at 400 W
- 100–264 VAC, single phase, 50–400 Hz input
- Designed to meet MIL-STD-704F
- Efficiency > 86%
- Holdup 50 ms at full load
- Input current THD < 3% at full load and 120 Vrms and 60 Hz; < 4% at full load and 120 Vrms and 400 Hz
- Minimum power factor of 0.99 lagging at full load and 120 Vrms and 60 Hz; 0.99 leading at full load and 120 Vrms and 400 Hz
- Output current maximum of 16.67 A
- Ripple  $\leq 1\%$
- Regulation +3%, -10%, 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

- 10.05" (L) x 7.25" (W) x 2.18" (H) Max
- Approx. 6.75 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:** P/N D38999/24WB98PN

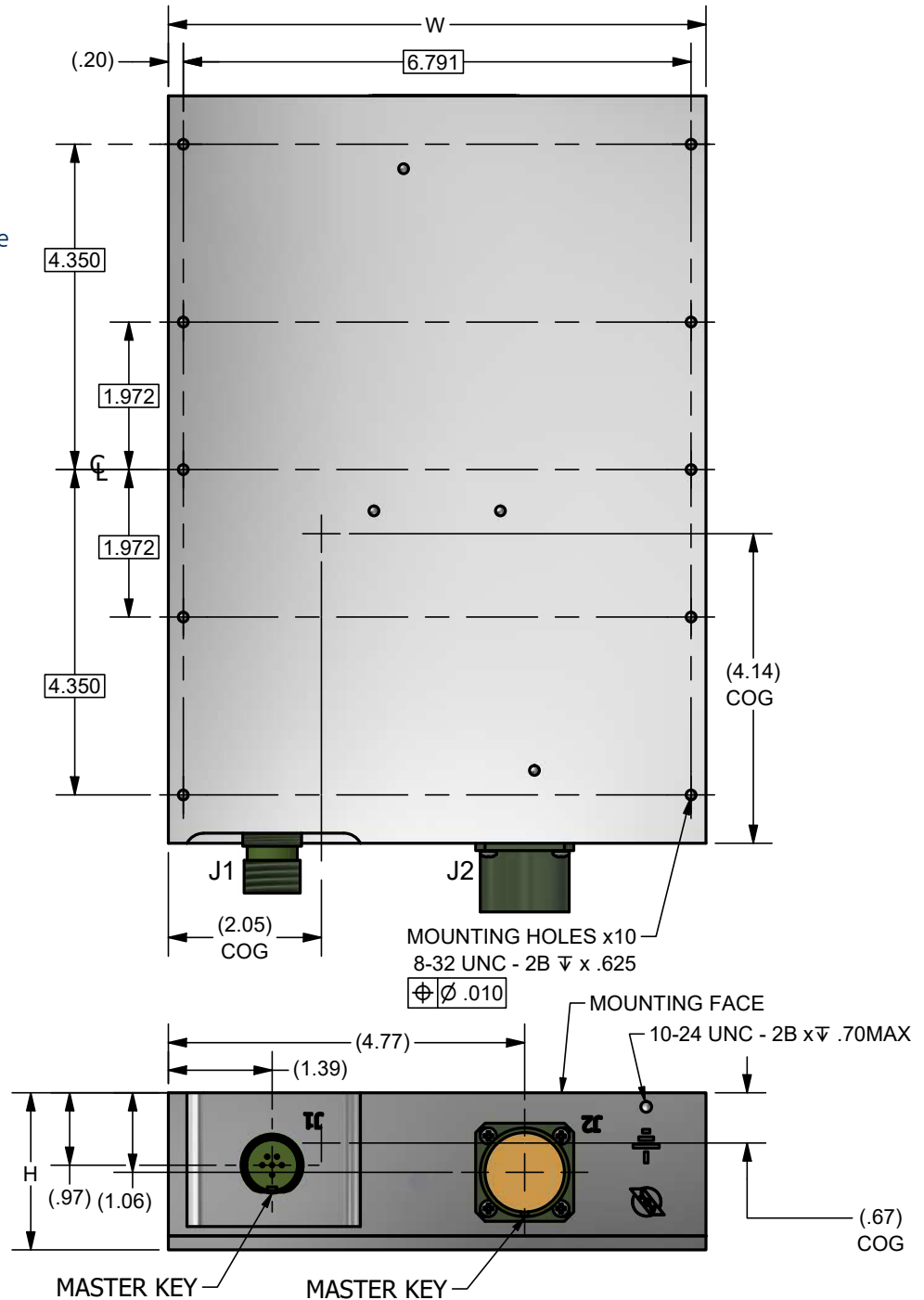
PIN	DESCRIPTION
A	100/264 VAC HOT
B	N/C
C	100/264 VAC NEUTRAL
D	GND (Chassis)
E	N/C
F	N/C

Suggested Mate: D38999/26WB98SN

**J2 Output:** P/N D38999/20WE6SN

PIN	DESCRIPTION
A	N/C
B	+ V <sub>OUT</sub>
C	+ V <sub>OUT</sub>
D	- V <sub>OUT</sub>
E	- V <sub>OUT</sub>
F	N/C

Suggested Mate: D38999/26WE6PN



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#### COOLING

Operational base plate temperature -40°C to +75°C

#### ISOLATION & PROTECTIONS

##### ISOLATION

- Input/Output > 10 Megohms at 400 VDC
- Input/Chassis > 10 Megohms at 400 VDC
- Output/Chassis > 10 Megohms at 50 VDC

##### PROTECTION

Overtemperature, short circuit, overvoltage, undervoltage, and overcurrent 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.

#### SW2513 SERIES SELECTOR GUIDE

ACT Product #	V <sub>IN</sub> (VAC)	Phase	Freq. (Hz)	# of Outputs	V <sub>OUT</sub> (VDC)	Output Power (W)	Heatsink
SW2513000-24	100-264	1	50-400	1	24	400	N
SW2513000-24-01	100-264	1	50-400	1	24	400	Y
SW2513000-28	100-264	1	50-400	1	28	400	N
SW2513000-28-01	100-264	1	50-400	1	28	400	Y

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