

## AC-DC MIL-COTS

### PRODUCT # SW0014

<b>97–277 VAC</b> Input Voltage	<b>40–70 Hz</b> Frequency	<b>1</b> Phase
<b>28 VDC</b> Output Voltage	<b>2000 W</b> Output Power	<b>1</b> # of Outputs



*Actual product appearance may vary.*

## PRODUCT DESCRIPTION

Ruggedized for performance and built for reliability, this environmentally sealed AC-DC power supply is designed to perform and protect in harsh, military environments. It is densely packaged, weighing approximately 33 lb, and features two internal fans for cooling. It also has an on/off switch for ease of manual control.

## ENVIRONMENT

Designed to meet MIL-STD-810



### TEMPERATURE

-40°C to +71°C operating, -40°C to +75°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, CE102

## FEATURES

- Single output of 28 V at 2000 W
- 97–277 VAC, single phase, 40–70 Hz input
- Efficiency > 88%
- Holdup 50 ms at full load
- Input current THD < 3.2% at full load and 115 Vrms and < 10% at full load and 240 Vrms
- Minimum power factor of 0.99 lagging at full load with 120 Vrms; 0.99 leading at full load with 240 Vrms
- Output current maximum of 107 A
- Ripple ≤ 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

- 11.625" (L) x 10.625" (W) x 7.125" (H) Max
- Approx. 33 lb
- Clear Iridite, Chemically filmed in accordance with MIL-DTL-5541, Type 2, Class 1A then primed with MIL-DTL-53022, Type IV, epoxy primer, and painted with MIL-STL-53039, Type III, chemical agent resistive coating, polyurethane, tan 686A color number 33446 per FED-STD-595
- Environmentally sealed to meet IP67 when mated with connectors and cable assemblies
- Alternative connector finishes may be available —contact us to learn more

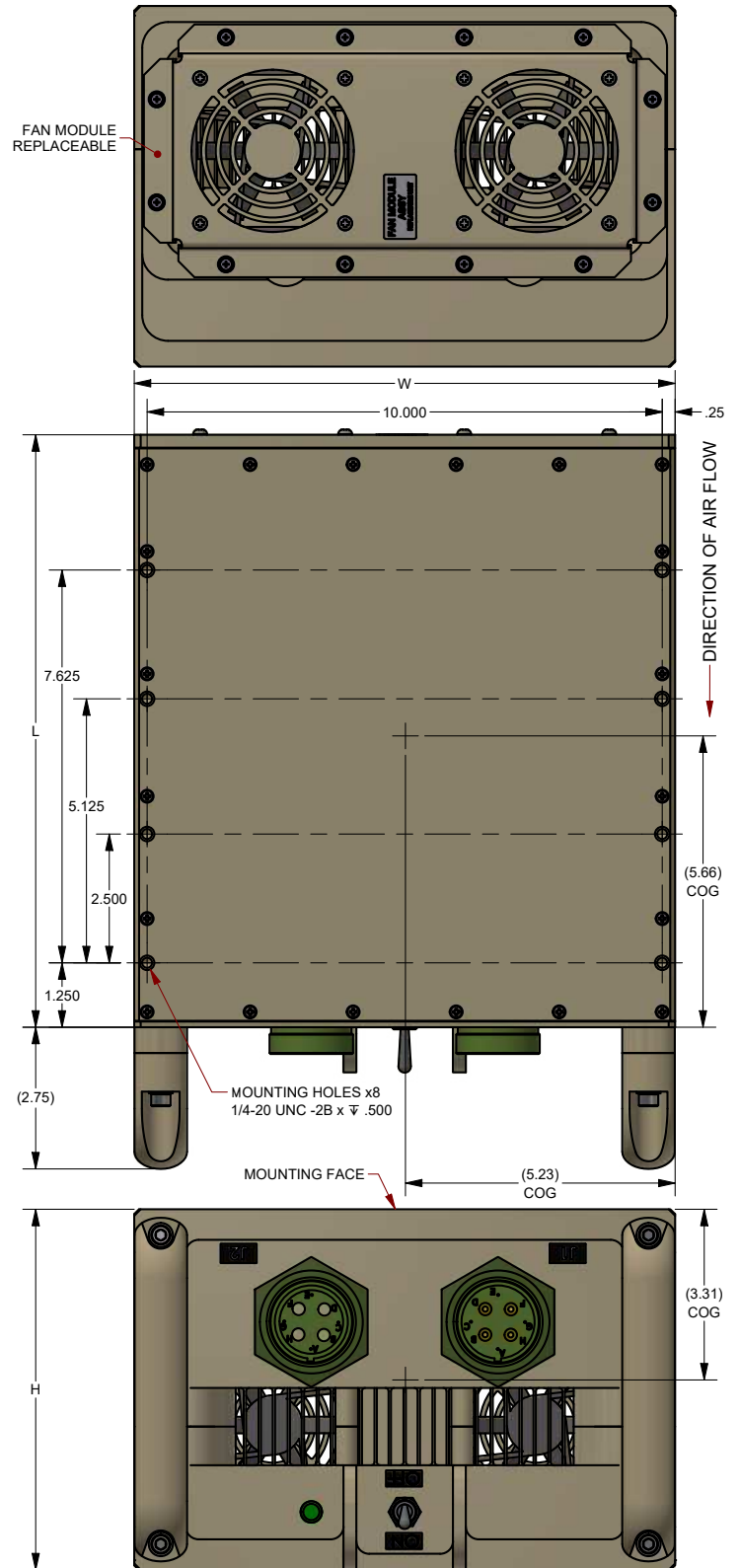
#### CONNECTORS

J1 Input: DTS24W25-44420PA-004		
PIN	120 VAC SERVICE	240 VAC SERVICE
A	N/C	N/C
B	120 V HOT	120 V HOT 01
C	N/C	N/C
D	120 V NEUTRAL	120 V HOT 02
E	N/C	N/C
F	N/C	N/C
G	N/C	N/C
H	GND (Chassis)	GND (Chassis)

Suggested Mate: DTS26W25-44420SA-S04

J2 Output: DTS26W25-44420SA-S04	
PIN	DESCRIPTION
A	N/C
B	+28 VDC
C	N/C
D	+28 VDC
E	N/C
F	+28 VDC RTN
G	N/C
H	+28 VDC RTN

Suggested Mate: DTS24W25-44420PA-004



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#### COOLING

Dual internal fans

#### ISOLATION & PROTECTIONS

##### ISOLATION

- Input/Output > 10 Megohms at 1000 VDC
- Input/Chassis > 10 Megohms at 1000 VDC
- Output/Chassis > 10 Megohms at 500 VDC

##### PROTECTION

Overtemperature, short circuit, and overvoltage 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.

CONTACT US

