

## DC-DC MIL-COTS

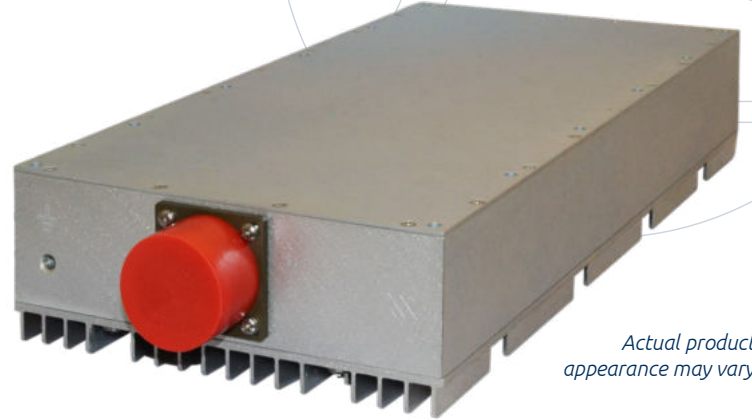
**PRODUCT # SW2511008-12-01**

**12–36 VDC**  
Input Voltage

**12 VDC**  
Output Voltage

**960 W**  
Output Power

**1**  
# of Outputs



*Actual product appearance may vary.*

### PRODUCT DESCRIPTION

This DC-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 compact in size, weighing approximately 13 lb, and is convection cooled. It is designed to meet the input power requirements of MIL-STD-1275E. This power supply is built for performance and tested for reliability. Custom output voltages are available.

### 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 MIL-STD-202G, Method 201



#### SHOCK

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



#### EMI

Designed to meet MIL-STD-461G, CE102

### FEATURES

- Single output of 12 V up to 960 W
- 12–36 VDC input
- Designed to meet MIL-STD-1275E
- Efficiency up to 96%
- Output current maximum of 80 A
- Ripple  $\leq$  240 mVp-p
- Regulation 5%, line and load
- Non-isolated
- *See derating details on page 3*

**CONTACT US**



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

**ACTPower.com** | 

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### MECHANICAL INFORMATION

- 15.05" (L) x 7.24" (W) x 2.75" (H) Max
- Approx. 13 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

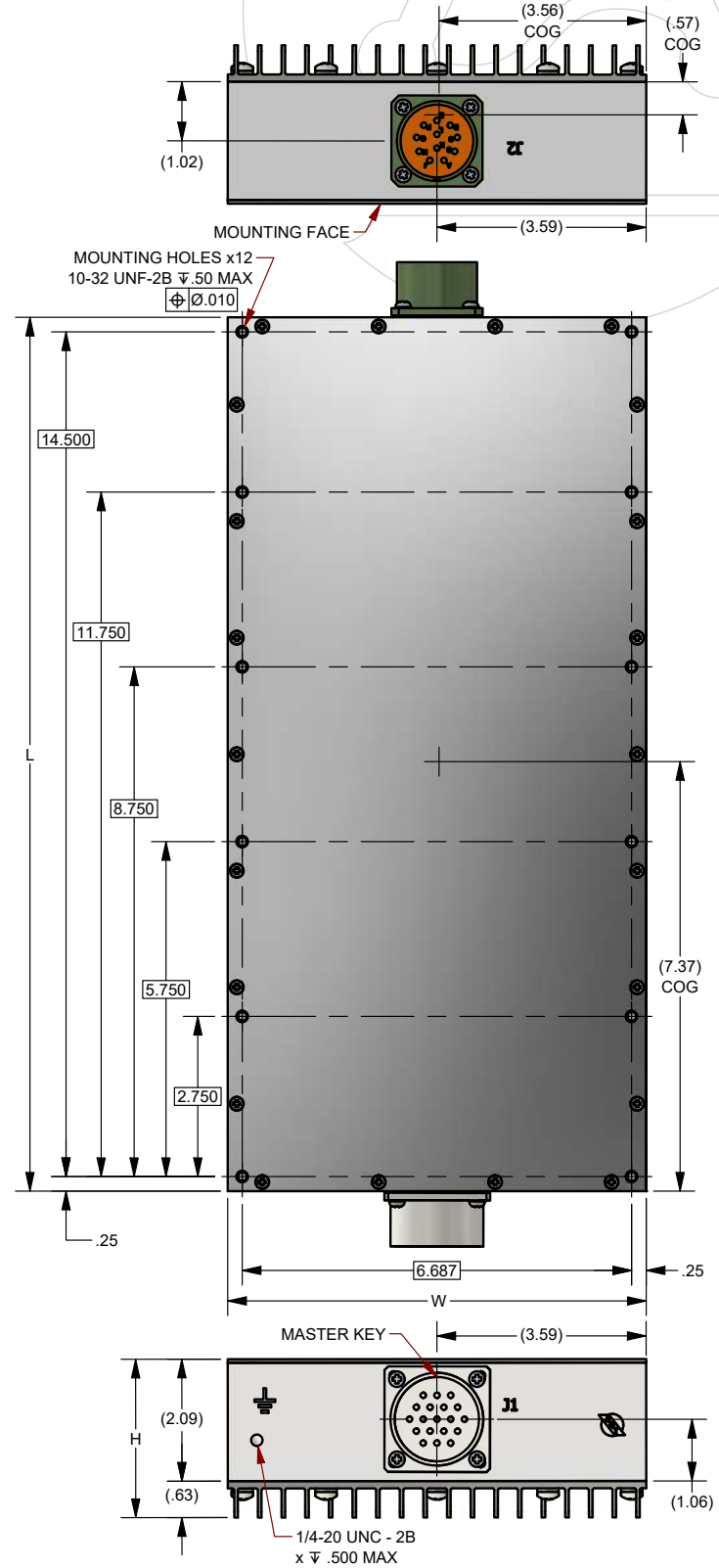
### CONNECTORS

J1 Input: D38999/20WJ19PN	
PIN	DESCRIPTION
A	N/C
B	V <sub>IN</sub> RTN
C	V <sub>IN</sub> RTN
D	V <sub>IN</sub> RTN
E	V <sub>IN</sub> RTN
F	V <sub>IN</sub> RTN
G	N/C
H	+ V <sub>IN</sub>
J	+ V <sub>IN</sub>
K	+ V <sub>IN</sub>
L	+ V <sub>IN</sub>
M	+ V <sub>IN</sub>
N	+ V <sub>IN</sub>
P	V <sub>IN</sub> RTN
R	V <sub>IN</sub> RTN
S	V <sub>IN</sub> RTN
T	+ V <sub>IN</sub>
U	+ V <sub>IN</sub>
V	N/C

Suggested Mate: D38999/26WJ19SN

J2 Output: D38999/20WG11SN	
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> RTN
F	V <sub>OUT</sub> RTN
G	V <sub>OUT</sub> RTN
H	V <sub>OUT</sub> RTN
J	V <sub>OUT</sub> RTN
K	+ V <sub>OUT</sub>
L	N/C

Suggested Mate: D38999/26WG11PN



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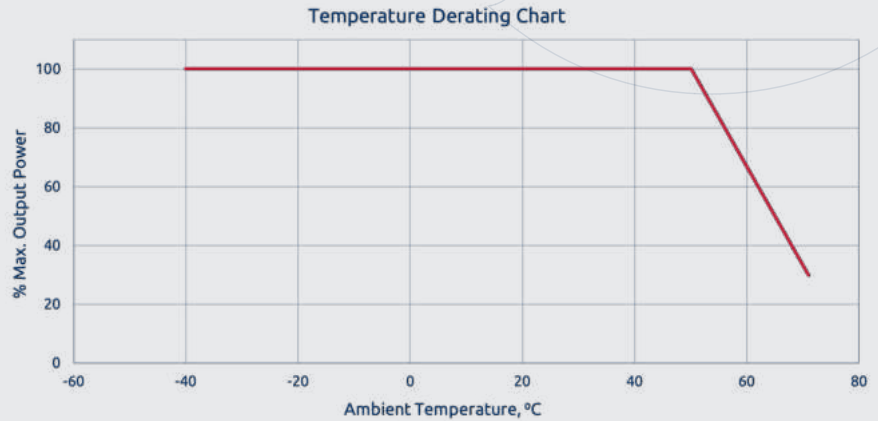
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### DERATING

#### NOTES

- Output performance is derated linearly from 100% at 50°C to 30% at 71°C



### COOLING

Natural convection cooling. See “Derating Chart” above for additional information.

### ISOLATION & PROTECTIONS

#### ISOLATION

- Non-isolated input/output
- Isolated input/chassis and output/chassis

#### PROTECTION

Reverse polarity, overtemperature, short circuit, and overvoltage with auto recovery

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## DC-DC MIL-COTS

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### 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.

## SW2511008 SERIES SELECTOR GUIDE

ACT Product #	V <sub>IN</sub> (VDC)	# of Outputs	V <sub>OUT</sub> (VDC)	Output Power (W)	Heatsink
SW2511008-12	12 to 36	1	12	960	N
SW2511008-12-01	12 to 36	1	12	960	Y
SW2511008-15	12 to 36	1	15	1200	N
SW2511008-15-01	12 to 36	1	15	1020	Y
SW2511008-16	12 to 36	1	16	1280	N
SW2511008-16-01	12 to 36	1	16	1020	Y
SW2511008-18	12 to 36	1	18	1440	N
SW2511008-18-01	12 to 36	1	18	1430	Y
SW2511008-22	12 to 36	1	22	1760	N
SW2511008-22-01	12 to 36	1	22	1680	Y
SW2511008-24	12 to 36	1	24	1920	N
SW2511008-24-01	12 to 36	1	24	2000	Y
SW2511008-26	12 to 36	1	26	2000	N
SW2511008-26-01	12 to 36	1	26	2000	Y
SW2511008-28	12 to 36	1	28	2000	N
SW2511008-28-01	12 to 36	1	28	2000	Y
SW2511008-32	12 to 36	1	32	2000	N
SW2511008-32-01	12 to 36	1	32	2000	Y

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