

DC-DC MIL-COTS

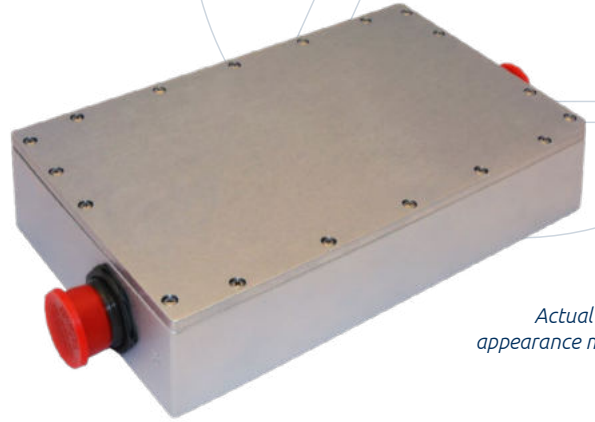
PRODUCT # SW2511005-28

12–36 VDC
Input Voltage

28 VDC
Output Voltage

500 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 4.5 lb, and is base plate or natural convection cooled. It is designed to meet the input power requirements of MIL-STD-1275E. This power supply was 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 NAVMAT P-9492



SHOCK

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



EMI

Designed to meet MIL-STD-461G, CE102

FEATURES

- Single output of 28 V up to 500 W
- 12–36 VDC input
- Designed to meet MIL-STD-1275E
- Efficiency up to 96%
- Output current maximum of 17.9 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

- 9.55" (L) x 5.60" (W) x 1.625" (H) Max
- Approx. 4.5 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

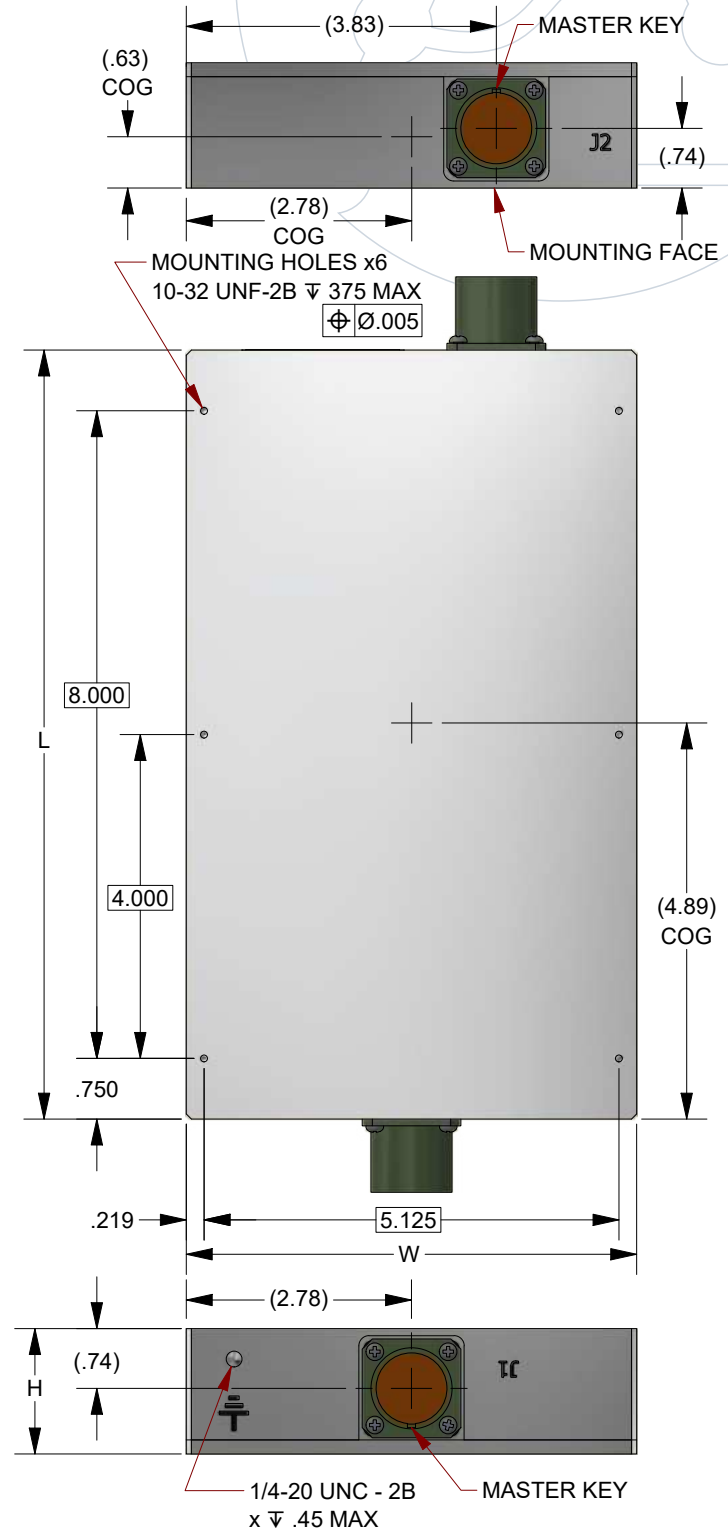
CONNECTORS

J1 Input: D38999/20WD18PN	
PIN	DESCRIPTION
A	OPEN
B	- V _{IN}
C	- V _{IN}
D	- V _{IN}
E	OPEN
F	OPEN
G	OPEN
H	+ V _{IN}
J	+ V _{IN}
K	+ V _{IN}
L	OPEN
M	+ V _{IN}
N	- V _{IN}
P	- V _{IN}
R	- V _{IN}
S	+ V _{IN}
T	+ V _{IN}
U	OPEN

Suggested Mate: D38999/26WD18SN

J2 Output: D38999/20WD5SN	
PIN	DESCRIPTION
A	+ V _{OUT}
B	+ V _{OUT}
C	- V _{OUT}
D	- V _{OUT}
E	OPEN

Suggested Mate: D38999/26WD5PN



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VOLTAGE & OUTPUT POWER DERATING

500 W output power can be achieved for 1 second with 12 VDC input voltage and 30 seconds with 16 VDC input voltage

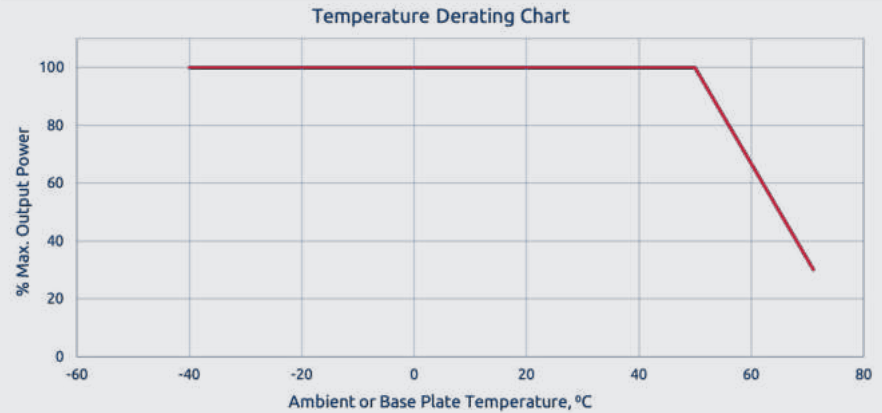
CONDUCTION (BASE PLATE) COOLED		
V _{IN} (VDC)	V _{OUT} (VDC)	MAX OUTPUT POWER (W)
12 to 15	28	290
16 to 19	28	395
20 to 36	28	500

CONVECTION COOLED		
V _{IN} (VDC)	V _{OUT} (VDC)	MAX OUTPUT POWER (W)
12 to 15	28	230
16 to 19	28	300
20 to 29	28	400
30 to 36	28	500

DERATING

NOTES

- Output performance is derated linearly from 0% at 50°C to 30% at 71°C



COOLING

Natural convection cooled or base plate cooled. 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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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.

SW2511005 SERIES SELECTOR GUIDE

ACT Product #	V _{IN} (VDC)	# of Outputs	V _{OUT} (VDC)	Output Power (W)	Heatsink
SW2511005-12	12 to 36	1	12	240	N
SW2511005-15	12 to 36	1	15	300	N
SW2511005-16	12 to 36	1	16	320	N
SW2511005-18	12 to 36	1	18	360	N
SW2511005-22	12 to 36	1	22	440	N
SW2511005-24	12 to 36	1	24	500	N
SW2511005-26	12 to 36	1	26	500	N
SW2511005-28	12 to 36	1	28	500	N
SW2511005-32	12 to 36	1	32	500	N

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