

DC-DC MIL-COTS

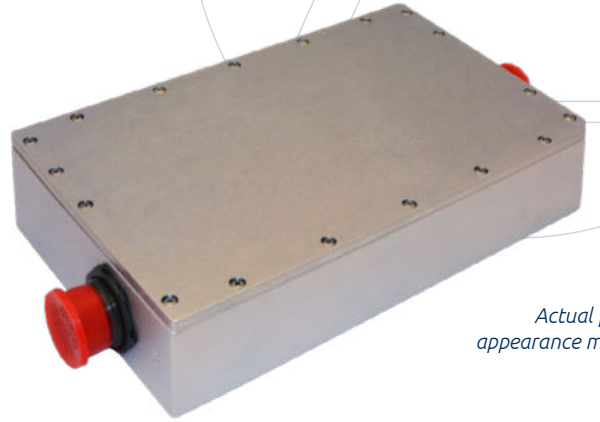
PRODUCT # SW2511005-24

12–36 VDC
Input Voltage

24 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 24 V up to 500 W
- 12–36 VDC input
- Designed to meet MIL-STD-1275E
- Efficiency up to 96%
- Output current maximum of 20 A
- Ripple \leq 240 mVp-p
- Regulation 5%, line and load
- Non-isolated
- *See derating details on page 3*

CONTACT US



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VOLTAGE & OUTPUT POWER DERATING

Conduction (base plate) cooled: 480 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	24	300
16 to 19	24	390
20 to 36	24	480

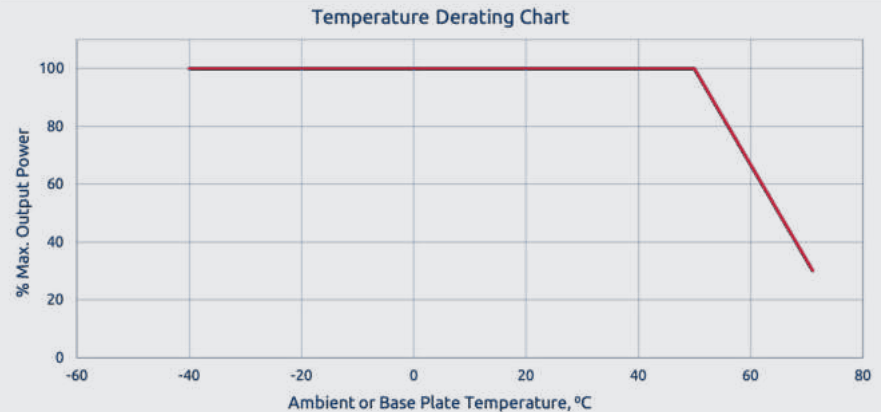
Convection cooled: 500 W output power can be achieved for 1 second with 12 VDC input voltage and 30 seconds with 16 VDC input voltage

CONVECTION COOLED		
V _{IN} (VDC)	V _{OUT} (VDC)	MAX OUTPUT POWER (W)
12 to 15	24	260
16 to-19	24	350
20 to 24	24	400
25 to 28	24	450
29 to 36	24	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.

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ISOLATION & PROTECTIONS

ISOLATION

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

PROTECTION

Reverse polarity, overtemperature, short circuit, and overvoltage 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.

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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