ADVANCED CONVERSION TECHNOLOGY

Power Solutions that Perform & Protect

DC-DC MIL-COTS

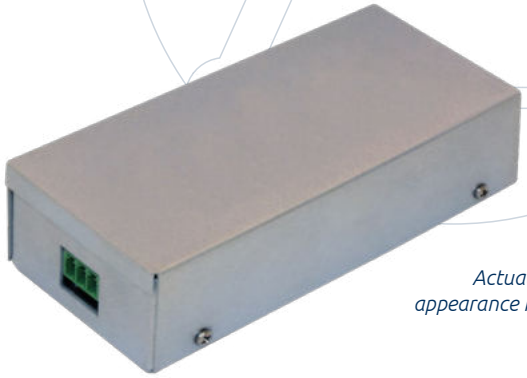
PRODUCT # SW0002002

15–36 VDC
Input Voltage

3.3–28 VDC
Output Voltage

140 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 rough environments as a point of load (POL) solution. It offers factory settable output features to accommodate line drop in a system. It is compact in size and weighs approximately 0.5 lb. All ACT products feature our proven quality and are trusted to perform when it matters most.

ENVIRONMENT

Designed to meet MIL-STD-810

TEMPERATURE
-40°C to +71°C operating, -40°C to +85°C non-operating

HUMIDITY
Up to 95% non-condensing

VIBRATION
Designed to meet MIL-STD-202, Random 6 gRMS

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

EMI
Designed to meet MIL-STD-461G, CE102

FEATURES

- Single output of 3.3–28 V at 140 W (5.2 A Max)
- 15–36 VDC input
- Efficiency up to 97%
- Output current maximum of 5.2 A
- Ripple ≤ 100 mVp-p (V_{OUT} ≤ 10 V), ≤ 1% of Vo (V_{OUT} > 10 V)
- Regulation 0.75%, line
- Non-isolated

NOTE

V_{IN} must be at least 3 V higher than V_{OUT}

CONTACT US

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

V 07.2024_R1

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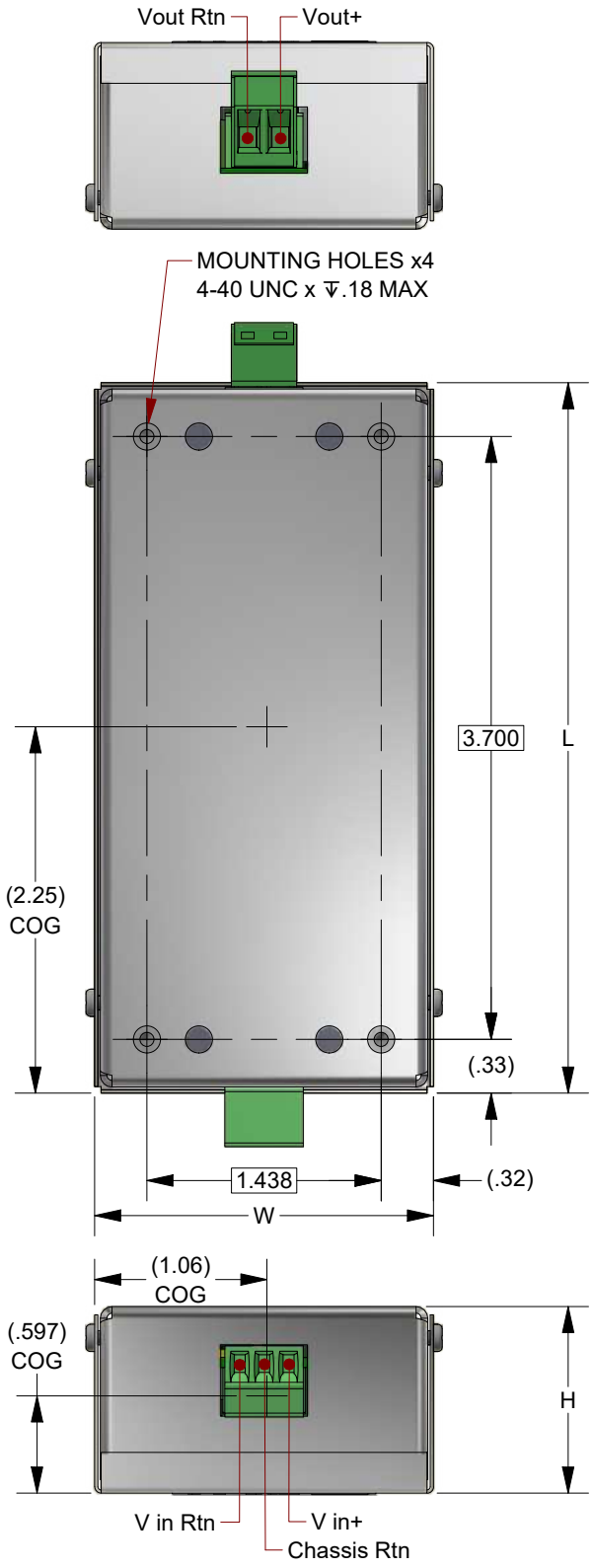
MECHANICAL INFORMATION

- 4.40” (L) x 2.10” (W) x 1.75” (H) Max
- Approx. 0.5 lb
- Clear Iridite, Chemically filmed in accordance with MIL-DTL-5541, Type 2, Class 3
- Alternative connector finishes may be available—contact us to learn more



CONNECTORS

J1 Input: Phoenix Contact 1803280
DESCRIPTION
V_{IN} RTN
Chassis RTN
V_{IN} +
Suggested Mate: Phoenix Contact 1803581 or 1850673

J2 Output: Phoenix Contact 1757242
DESCRIPTION
V_{OUT} RTN
V_{OUT} +
Suggested Mate: Phoenix Contact 1757019 or 1777280

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COOLING

Operational baseplate temperature -40°C to +85°C

ISOLATION & PROTECTIONS

ISOLATION

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

PROTECTION

- Overcurrent and short circuit with auto recovery
- Overvoltage with automatic shutdown and manual restart

QUICK REACTION READY
Power Solutions that Perform & Protect

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.

LOAD REGULATION CHART

Output Voltage	Load Regulation
$V_{OUT} < 5$ V	5%
$5 V \geq V_{OUT} < 10$ V	3%
$10 V \geq V_{OUT} < 20$ V	2%
$V_{OUT} \geq 20$ V	1%

PART NUMBER ORDERING CHART

Base Product #	Output Voltage (Vo)	Over Voltage (%)	Over Current (A)
SW0002002-	AA.A-	BBB-	C.C

PART NUMBER ORDERING CHART NOTES

- AA.A is output voltage (V_{OUT}) specified between 3.3 to 28 VDC
- BBB is the overvoltage specified between 105% to 115%
- C.C is the overcurrent specified between 1.0 to 5.2 A

Example: SW0002002-12.5-105-2.5 has an output voltage of 12.5 VDC, overvoltage set point of 105%, and a 2.5 A overcurrent set point.

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