

10V Sensor Power Supply P/N: AX082910

Features:

- Interfaces with a 10Vdc Sensor
- 12Vdc or 24Vdc to 10Vdc, 10W Converter
- Non-isolated
- Operates from 11.5Vdc-36Vdc
- Typical efficiency of 90%@12Vdc or 85%@24Vdc
- Thermal protection for over temperature
- Reverse battery, over and under-voltage protection
- Short circuit and overcurrent protection
- -40 to 70 °C (-40 to 158 °F) operating temperature
- Compact, ultrasonic welded enclosure
- 8-pin connector (TE Deutsch P/N equivalent)
- IP67
- EMI/EMC compliant



Applications: The Power Supply is suitable for application on vehicles.

- Off-highway Equipment
- Fire trucks and municipal vehicles
- Military Vehicles

Ordering Part Numbers:

12 or 24V/10V, 1A Converter P/N: AX082910

Accessories:

AX070112 Mating Plug Kit :1 DT06-08SA, 1 W8S, 8 0462-201-16141, 3 114017

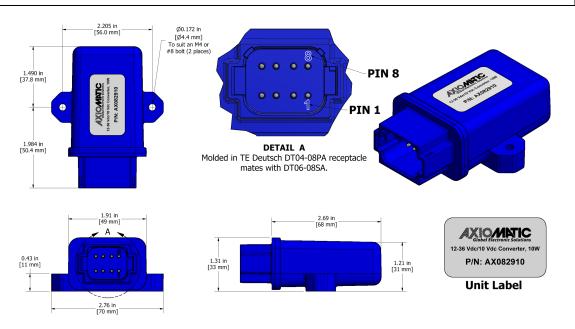


Figure 1.0 - Dimensional Drawing

Technical Specifications:All specifications are typical at nominal input voltage and 25 degrees C unless otherwise specified.

Specifications are indicative and subject to change. Actual performance will vary depending on the application and operating conditions. Users should satisfy themselves that the product is suitable for use in the intended application. All our products carry a limited warranty against defects in material and workmanship. Please refer to our Warranty, Application Approvals/Limitations and Return Materials Process as described on https://www.axiomatic.com/service/.

Input Specifications		Output Specifications		
Power Source	12/24 Vdc nominal	Nameplate Rating (Output Power)	10 VA nominal	
Operating Voltage Range	11.5 to 36 Vdc provides output 10V regulated to 3% @ 1A load	Output Current (DC)	1 A continuous	
Maximum Input Current	1ADC @ 12Vdc	Output Voltage 10 Vdc ± 3%		
Engine Load Dump	Designed to meet load dump conditions up to 120Vdc	Output Voltage Ripple	V _{O(RIPPLE)} ≤ 50 mVpp	
Reverse Voltage Protection	Provided	Turn-on time (at full load)	500 ms typical	
Under-voltage Shutdown	6.5 Vdc typical	Stability	Stable at all loads (no minimum load requirement)	
		Transient	700 mV/1 ms	
		Response	(25%-75% Load)	
		Short Circuit	Protection provided	
		Current	Self-recovery	
			1.5A current limit	

Conoral Specifications

General Specification	<u> </u>			
Operating Temperature	-40 to 70 °C	-40 to 70 °C (-40 to 158 °F)		
Efficiency	90% @ 12Vd	90% @ 12Vdc input, typical; 85% @24Vdc input, typical		
Weight	0.15 lb. (0.06	0.15 lb. (0.06 kg)		
Vibration (Pending)	MIL-STD-202G, Method 204D test condition C (Sine) and Method 214A, test condition B (Random) 10 g peak (Sine) 7.68 Grms peak (Random)			
Shock (Pending)	MIL- STD-202G, Method 213B, test condition A 50g (half sine pulse, 9ms long, 8 per axis)			
Enclosure	Molded Enclosure, integral connector Nylon 6/6, 30% glass, Ultrasonically welded 3.47 x 2.75 x 1.31 inches (88.2 x 70.0 x 33.3 mm) L x W x H including integral connector Refer to the dimensional drawing.			
Electrical Connections	18 AWG wire	Integral 8 pin receptacle (equivalent TE Deutsch P/N: DT04-08PA) 18 AWG wire is recommended for use with contacts 0462-201-16141. A mating plug kit is available. Ordering P/N: AX070112 is comprised of 1 DT06-08SA, 1 W8S, 8 0462-201-16141, and 3 114017.		
	PIN#	FUNCTION		
	1	NOT USED		
	2	NOT USED		
	3	NOT USED		
	4	NOT USED		
	5	V In +		
	6	V In -		
	7	V Output -		
	8	V Output +		
Mounting	end-user's m inches (10.8 reduce likelih temperature	Mounting holes are sized for #8 or M4 bolts. The bolt length will be determined by the end-user's mounting plate thickness. The mounting flange of the controller is 0.425 inches (10.8 mm) thick. It should be mounted with connectors facing left or right to reduce likelihood of moisture entry. All field wiring should be suitable for the operating temperature range. Install the unit with appropriate space available for servicing and for adequate wire harness access (6 inches or 15 cm) and strain relief (12 inches or 30 cm).		

Form: TDAX082910-06/22/23

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