

PRESS RELEASE

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Axiomatic showcases its range of 48 V DC-DC Converters with nameplate ratings between 18 W to 720 W and housed in rugged enclosures suitable for harsh environments.

Axiomatic’s 48V DC-DC Converters provide clean power suitable for communication, instrumentation and control, and other power-sensitive equipment.

These devices convert a nominal 48 V from a battery or other source to 12 to 24 Vdc output, depending on the model. The nominal nameplate ratings vary between 18 and 720 W. AX082410, AX081550, AX083204, AX081520, AX080300, and AX081860 are isolated. AX083204 and AX080300 feature an enable function. Model AX090670 can be used as a battery charger as well.

The units are designed with rugged surge and transient suppression. Over and under-voltage protection and inrush current control are provided.

Their IP67-rated enclosures are fully sealed to protect against dirt, moisture, and humidity. Axiomatic power converters can withstand machine shock and vibration for operation under the most harsh and demanding conditions.

A brief comparison of these ten converter models is presented in the table below.

	Output Power (W)	Output Current (A)	Output Voltage (V)	Input Voltage (V)	Isolation	Enable
AX082410	18	0.75	24	48	Yes	No
AX090670	54	2	12/ 24	48	No	No
AX082400	180	15	13.8	48	No	No
AX081550	240	20	12	48	Yes	No
AX083204	240	10	24	24/ 36/ 48	Yes	Yes
AX081520	312	13	24	48	Yes	No
AX081801	330	13	26	48	No	No
AX080300	350	15	24	24/ 36/ 48	Yes	Yes
AX081220	600	25	24	48	Yes	No
AX081860	720	30	24	48	No	No

Our 48 V DC-DC Converters include the following models*. Please click the part numbers to visit their respective product pages and see detailed specifications.

- i. [AX090670](#), 48Vdc/24V or 12Vdc, 2A Battery Charger/Converter
- ii. [AX082400](#), 48Vdc/13.8Vdc Converter, 180W
- iii. [AX081550](#), 48Vdc/12Vdc Converter, 240W, Isolated
- iv. [AX083204](#), 15V-60Vdc to 24Vdc, 240W, Isolated Converter, 5V-24Vdc Enable
- v. [AX081520](#), 48VDC-24VDC Converter, 13A, Isolated
- vi. [AX081801](#), 48Vdc - 26Vdc, 13A Converter
- vii. [AX080300](#), 15/60Vdc to 24Vdc Converter, Isolated
- viii. [AX081860](#), 48Vdc/24Vdc Converter, 720W

*AX082410 and AX081220 are upcoming products and will be launched on our website soon.



Figure. Axiomatic's 48 V DC-DC Converter Line-Up

Effective power management in battery-powered systems is essential for delivering clean and regulated electricity to sensitive electronic components. This enhances overall device performance and extends lifespan. Our DC-DC converters offer reliable voltage regulation and safeguard against surges and various power quality issues.

These converters are suitable for use in mining, construction, and lift equipment as well as in electric vehicles including golf carts. They eliminate the need for battery taps, ensuring protection for sensitive equipment.

For critical loads, isolation from battery power is often required. Our solutions can adjust voltage levels, either elevating it with a boost converter or reducing it with a buck converter, providing the appropriate voltage and current for auxiliary devices, such as lights, horns, and other accessories.

You can browse through the complete catalog of our power management products at:
<https://products.axiomatic.com/category/power-management>

Axiomatic specializes in the design, development, and production of power management solutions tailored for diverse applications where power quality and reliability are of utmost importance. Our design team creates control products in both Canada and Finland, while our manufacturing operations are located in Canada.

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