

ARTESYN AXA SERIES

25 Watts



Advanced Energy's Artesyn AXA series of low-input isolated DC-DC converters features an ultra wide 4:1 input voltage range of 9–36 Vdc and is designed primarily for use with nominal 12 V or 24 V supplies. There is a choice of five single output models, offering voltages of 3.3 V, 5 V, 12 V, 15 V or 24 V, and two dual output models offering +12/-12 V or +15/-15 V. The converters are fully encapsulated in a compact 1 x 1 inch (25.4 x 25.4 mm) metal case incorporating an isolated baseplate and have a height of just 0.4 inch (10.2 mm). An optional clip-on heatsink is available for convection cooling. Standard features include 1,500 Vdc input/output isolation, remote On/Off and hiccup mode short-circuit protection

DATA SHEET

Total Power:

25 W

Input Voltage:

24 or 48 V

of Outputs:

Single and Dual

SPECIAL FEATURES

- Package size 1.0" x 1.0" x 0.4"
- Ultra-wide 4:1 input range:
 9 36 Vin, 18 75 Vin
- Very high efficiency up to 90%
- Operating temperature range: -40 °C to +80 °C (with derating)
- Output voltage adjustable
- I/O isolation voltage 1500 Vdc
- Remote ON/OFF control
- Metal case with isolated baseplate
- CSA/UL/IEC/EN 60950-1Safety Approval

SAFETY

 UL/cUL/IEC/EN 62368-1 (60950-1) Safety Approval & CE Marking

ELECTRICAL SPECIFICATIONS

Input					
Input range	9 - 36 Vdc, 18 - 75 Vdc				
Efficiency	90% @ 12 Vo				
Output					
Voltage tolerance	±2.0%				
Line regulation	±0.2%				
Load regulation	±1.0%				
Noise/ripple	150 mV				
Overload protection	150% typ of Io max, hiccup				
Short circuit protection	Hiccup mode				
Switching frequency	285 KHz				
Isolation					
I/O isolation	I/O: 1500 Vdc				
Insulation resistance	1000 Mohm				
Insulation capacitance	2000 pF				

ENVIRONMENTAL SPECIFICATIONS

Operating ambient temperature range	-40 °C to +80 °C	
Storage temperature	-50 °C to +125 °C	
Humidity	5% to 95% non-condensing	
MTBF	444 Khrs calculated	



ORDERING INFORMATION

Part Number	Input Voltage	Output Voltage	Output Current	Efficiency	Max Out Cap	Power
AXA06F18-L	9 - 36 Vdc	3.3 V	6 A	87%	10300 µF	19.8 W
AXA05A18-L	9 - 36 Vdc	5 V	5 A	89%	6800 μF	25 W
AXA02B18-L	9 - 36 Vdc	12 V	2.09 A	89%	1200 μF	25 W
AXA02C18-L	9 - 36 Vdc	15 V	1.67 A	90%	750 μF	25 W
AXA01BB18-L	9 - 36 Vdc	±12 V	±1.04 A	89%	680 μF	25 W
AXA01CC18-L	9 - 36 Vdc	±15 V	±0.84 A	89%	380 μF	25 W
AXA06F36-L	18 - 75 Vdc	3.3 V	6 A	88%	10300 μF	19.8 W
AXA05A36-L	18 - 75 Vdc	5 V	5 A	90%	6800 μF	25 W
AXA02B36-L	18 - 75 Vdc	12 V	2.09 A	90%	1200 μF	25 W
AXA02C36-L	18 - 75 Vdc	15 V	1.67 A	90%	750 μF	25 W
AXA01BB36-L	18 - 75 Vdc	±12 V	±1.04 A	89%	680 μF	25 W
AXA01CC36-L	18 - 75 Vdc	±15 V	±0.84 A	89%	380 μF	25 W

MECHANICAL DIMENSIONS



 \cdot All dimensions in mm (inches) · Tolerance: X.X±0.5 (X.XX±0.02) X.XX±0.25 (X.XXX±0.01) · Pin diameter Ø 1.0 ±0.05 (0.04±0.002)





Pin Connections					
Pin	Single Output	Dual Output			
1	+Vin	+Vin			
2	-Vin	-Vin			
3	+Vout	+Vout			
4	Trim	Common			
5	-Vout	-Vout			
6	Remote On/Off	Remote On/Off			





Advanced Energy (AE) has devoted more than three decades to perfecting power for its global customers. AE designs and manufactures highly engineered, precision power conversion, measurement and control solutions for mission-critical applications and processes.

Our products enable customer innovation in complex applications for a wide range of industries including semiconductor equipment, industrial, manufacturing, telecommunications, data center computing, and medical. With deep applications know-how and responsive service and support across the globe, we build collaborative partnerships to meet rapid technological developments, propel growth for our customers, and innovate the future of power.

PRECISION | POWER | PERFORMANCE

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For international contact information, visit advancedenergy.com.

powersales@aei.com (Sales Support) productsupport.ep@aei.com (Technical Support) +1 888 412 7832