

ARTESYN AXA SERIES

10 Watts



The AXA series of high-input isolated DC-DC converters that feature an ultra wide 4:1 input voltage range of 18–75 Vdc or 9–36Vdc respectively and are primarily designed for use with nominal 48V or 24V supplies. There is a choice of five single output models, offering single voltage versions of 3.3 V, 5 V, 12 V, 15 V or 24 V and dual output versions of +/-5V, +/-12V and +/-15V. 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:

10 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 87%
- Operating temperature range:
-40 °C to +80 °C
- I/O isolation voltage 1500 VDC
- Remote ON/OFF control
- Metal case with isolated baseplate
- CSA/UL/IEC/EN 60950-1
Safety Approval

SAFETY

- cUL/UL 60950-1
- IEC/EN 60950-1

ELECTRICAL SPECIFICATIONS

Input	
Input range	9 - 36 Vdc, 18 - 75 Vdc
Efficiency	87% @ 12 Vo
Output	
Voltage tolerance	±2.0%
Line regulation	±0.3%
Load regulation	±0.5%
Noise/ripple	100 mV
Overload protection	150% typ of Io max, hiccup
Short circuit protection	Hiccup mode
Switching frequency	450 kHz
Isolation	
I/O isolation	I/O: 1500 Vdc
Insulation resistance	1000 Mohm
Insulation capacitance	1500 pF

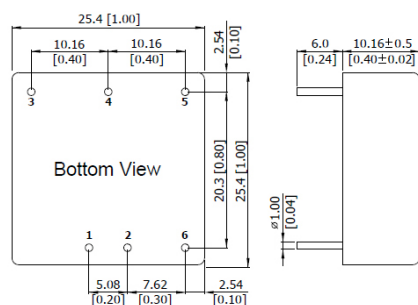
ENVIRONMENTAL SPECIFICATIONS

Operating ambient temperature range	-40 °C to +80 °C
Storage temperature	-50 °C to +125 °C
Humidity	5% to 95% non-condensing
MTBF	350 Khrs calculated

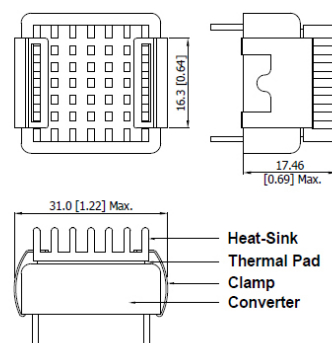
ORDERING INFORMATION

Part Number	Input Voltage	Output Voltage	Output Current	Efficiency	Max Output Cap	Power
AXA02F18-L	9 - 36 Vdc	3.3 V	2.2 A	86%	560 μ F	7.2 W
AXA02A18-L	9 - 36 Vdc	5 V	2 A	84%	560 μ F	10 W
AXA00B18-L	9 - 36 Vdc	12 V	0.83 A	86%	150 μ F	10 W
AXA00C18-L	9 - 36 Vdc	15 V	0.66 A	87%	150 μ F	10 W
AXA000H18-L	9 - 36 Vdc	24 V	0.41 A	86%	68 μ F	10 W
AXA00AA18-L	9 - 36 Vdc	± 5 V	± 1 A	84%	220 μ F	10 W
AXA000BB18-L	9 - 36 Vdc	± 12 V	± 0.41 A	86%	100 μ F	10 W
AXA000CC18-L	9 - 36 Vdc	± 15 V	± 0.33 A	87%	100 μ F	10 W
AXA02F36-L	18 - 75 Vdc	3.3 V	2.2 A	85%	560 μ F	7.2 W
AXA02A36-L	18 - 75 Vdc	5 V	2 A	84%	560 μ F	10 W
AXA00B36-L	18 - 75 Vdc	12 V	0.83 A	86%	150 μ F	10 W
AXA00C36-L	18 - 75 Vdc	15 V	0.66 A	87%	150 μ F	10 W
AXA000H36-L	18 - 75 Vdc	24 V	0.41 A	86%	68 μ F	10 W
AXA00AA36-L	18 - 75 Vdc	± 5 V	± 1 A	84%	220 μ F	10 W
AXA000BB36-L	18 - 75 Vdc	± 12 V	± 0.41 A	86%	100 μ F	10 W
AXA000CC36-L	18 - 75 Vdc	± 15 V	± 0.33 A	87%	100 μ F	10 W

MECHANICAL DIMENSIONS



Heatsink (Option -HS)



- All dimensions in mm (inches)
- Tolerance: X.X \pm 0.25 (X.XX \pm 0.01)
X.XX \pm 0.13 (X.XXX \pm 0.005)
- Pin diameter \varnothing 1.0 \pm 0.05 (0.04 \pm 0.002)

Pin Connections

Pin	Single Output	Dual Output
1	+Vin	+Vin
2	-Vin	-Vin
3	+Vout	+Vout
4	No pin	Common
5	-Vout	-Vout
6	Remote On/Off	Remote On/Off



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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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