ARTESYN ATA SERIES

10 Watts



Advanced Energy's Artesyn ATA series 10 watt isolated DC-DC converters are suitable for a diverse range of low power applications, including data communication, telecommunication and computer peripheral equipment, industrial automation and mobile battery-powered systems. The series comprises 14 variants, each of which is available in a mini dual-in-line package for through-hole mounting.

AT A GLANCE

Total Power

10 W

Input Voltage

24 or 48 Vin

# of Outputs

Single and Dual

SPECIAL FEATURES

- Ultra compact DIP package 23.8 x 13.7 x 8.0 mm (0.94 x 0.54 x 0.31 inches)
- Efficiency up to 86%
- I/O-isolation 1500 VDC
- Ultra-wide 4:1 input range
- Operating temperature range -40 °C to +80 °C
- Input filter meets EN 55022,class A and FCC, level A
- Three year product warranty
- UL/cUL/IEC/EN 62368-1 (60950-1) safety approval and CE marking

SAFETY

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

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ELECTRICAL SPECIFICATIONS

Input	
Input range	9 to 36 VDC, 18 to 75 VDC
Efficiency	88% @ 24 Vo
Output	
Output voltage	5V, 12V, 15V, 24V, ±12V, ±15V
Voltage tolerance	±2.0%
Line regulation	0.8%
Load regulation	1.0%
Noise/ripple	55 mV
Overload protection	150% typ of Io max, Hiccup
Short circuit protection	Hiccup mode
Switching frequency	370 KHz
Isolation	
I/O isolation	I/O: 1500 VDC
Insulation resistance	1000 Mohm

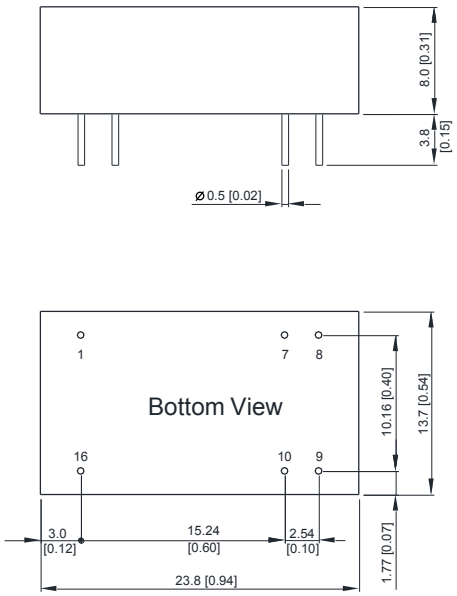
ENVIRONMENTAL SPECIFICATIONS

Operating ambient temperature range	-40°C to +80°C
Storage temperature	-50°C to +125°C
Humidity	5% to 95% non-condensing
MTBF	2538 Khrs calculated (Mil-HDBK-217F@25C ground benign)

ORDERING INFORMATION

Part Number	Input Voltage	Output Voltage	Output Current	Efficiency	Power
ATA03F18-L	9-36 VDC	3.3 V	2700 mA	80%	8.9 W
ATA03A18-L	9-36 VDC	5 V	2000 mA	83%	10 W
ATA03B18-L	9-36 VDC	12 V	833 mA	87%	10 W
ATA03C18-L	9-36 VDC	15 V	666 mA	88%	10 W
ATA03H18-L	9-36 VDC	24 V	416 mA	88%	10 W
ATA03BB18-L	9-36 VDC	±12 V	±416 mA	87%	10 W
ATA03CC18-L	9-36 VDC	±15 V	±333 mA	87%	10 W
ATA03F36-L	18-75 VDC	3.3 V	2700 mA	80%	8.9 W
ATA03A36-L	18-75 VDC	5 V	2000 mA	83%	10 W
ATA03B36-L	18-75 VDC	12 V	833 mA	87%	10 W
ATA03C36-L	18-75 VDC	15 V	666 mA	88%	10 W
ATA03H36-L	18-75 VDC	24 V	416 mA	88%	10 W
ATA03BB36-L	18-75 VDC	± 12 V	±416 mA	87%	10 W
ATA03CC36-L	18-75 VDC	± 15 V	±333 mA	87%	10 W

MECHANICAL DIMENSIONS



All dimensions in mm (inches)

- Tolerance: X.X±0.5 (X.XX±0.01)
  X.XX±0.25 (X.XXX±0.005)
- Pin dimension tolerance: 0.5±0.05(0.02±0.002)

PIN CONNECTORS

Pin No.	Single Output	Dual Output
1	-Vin	-Vin
7	No Connection	No Connection
8	No Connection	Common
9	+Vout	+Vout
10	-Vout	-Vout
16	+Vin	+Vin

ABOUT ADVANCED ENERGY

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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