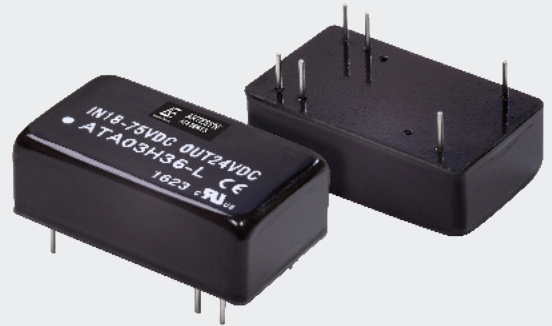


ARTESYN ATA SERIES

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.

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

AT A GLANCE

Total Power

10 W

Input Voltage

24 or 48 Vin

of Outputs

Single and Dual

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 |

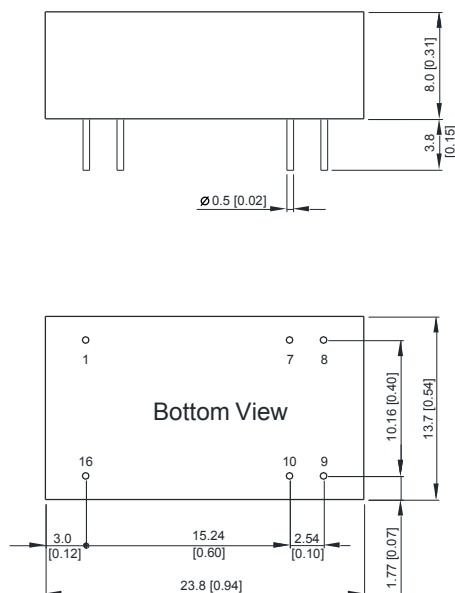
ENVIRONMENTAL SPECIFICATIONS

| | |
|-------------------------------------|--|
| 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: $X.X \pm 0.5$ ($X.XX \pm 0.01$)
 $X.XX \pm 0.25$ ($X.XXX \pm 0.005$)
- 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 |



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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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[ATA03C18-L](#) [ATA03C36-L](#) [ATA03CC18-L](#) [ATA03CC36-L](#) [ATA03F18-L](#) [ATA03F36-L](#)