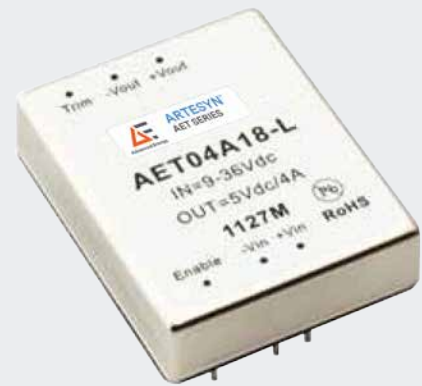


# ARTESYN AET SERIES

20 Watts



Advanced Energy's Artesyn AET series of 20 watt isolated DC-DC converters is available with an ultra wide 9–36 Vdc or 18–75 Vdc input. Each of these versions offers a choice of five single output models, with voltages of 2.5 V, 3.3 V, 5 V, 12 V or 15 V, and three dual output models offering +5/-5 V, +12/-12 V or +15/-15 V. The converters are encapsulated in a 2 x 1.6 inch (50.8 x 40.6 mm) metal case and have a height of just 0.48 inch (12.2 mm). They are ideal for ruggedized applications involving harsh environments. Standard features include 1,500 Vdc input/output isolation, overvoltage protection and short-circuit protection with auto-restart.

## DATA SHEET

### Total Power:

20 Watts

### Input Voltage:

12, 24 or 48 V

### # of Outputs:

Single, Dual



## SPECIAL FEATURES

- Encapsulated
- 4:1 input range
- 1.6" x 2" package
- 1500 Vdc I/O isolation
- Single and Dual output
- Remote on/off
- Adjustable output
- Conducted noise: meets EN 55022 class A, FCC level A

## SAFETY

- CE Mark

## ELECTRICAL SPECIFICATIONS

| Input                    |                                          |
|--------------------------|------------------------------------------|
| Input range              | 9 - 36 VDC; 18 - 75 VDC                  |
| Efficiency               | 85% @ 12 Vo                              |
| Output                   |                                          |
| Voltage tolerance        | < 1.6%                                   |
| Line regulation          | +0.5%                                    |
| Load regulation          | Single output: +0.5%; Dual output: +2.0% |
| Noise/ripple             | All models: 100 mV                       |
| Short circuit protection | Auto-restart                             |
| Overvoltage protection   | 115 - 130% nominal output                |
| Switching frequency      | 300 KHz                                  |
| Temperature co-efficient | +0.02% / °C                              |
| Isolation                |                                          |
| I/O isolation            | 1500 VDC min                             |
| Insulation resistance    | 10 Mohm                                  |
| Insulation capacitance   | 1000 pF                                  |

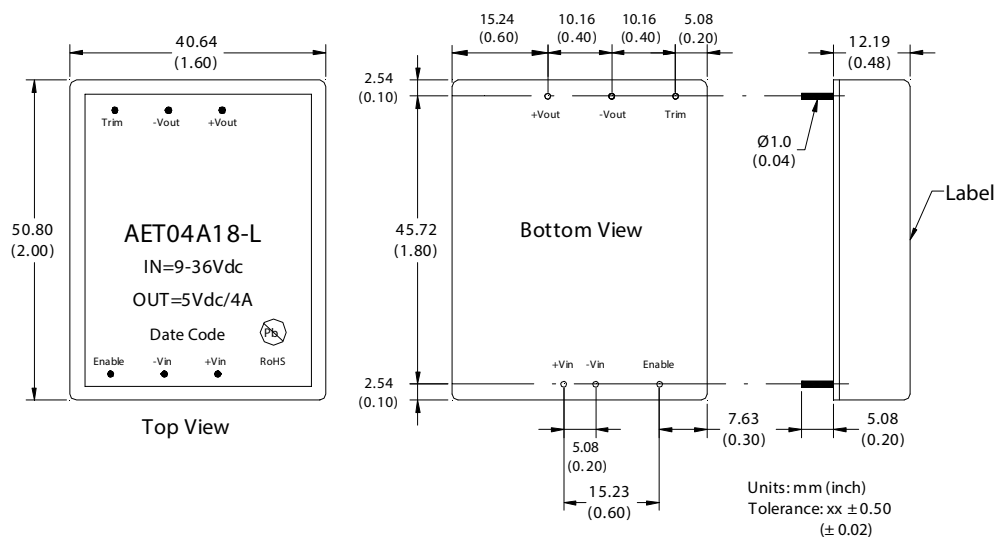
## ENVIRONMENTAL SPECIFICATIONS

|                                     |                          |
|-------------------------------------|--------------------------|
| Operating ambient temperature range | -40 °C to +71 °C         |
| Storage temperature                 | -55 °C to +105 °C        |
| Humidity                            | 5% to 95% non-condensing |
| MTBF                                | 850 Khrs calculated      |

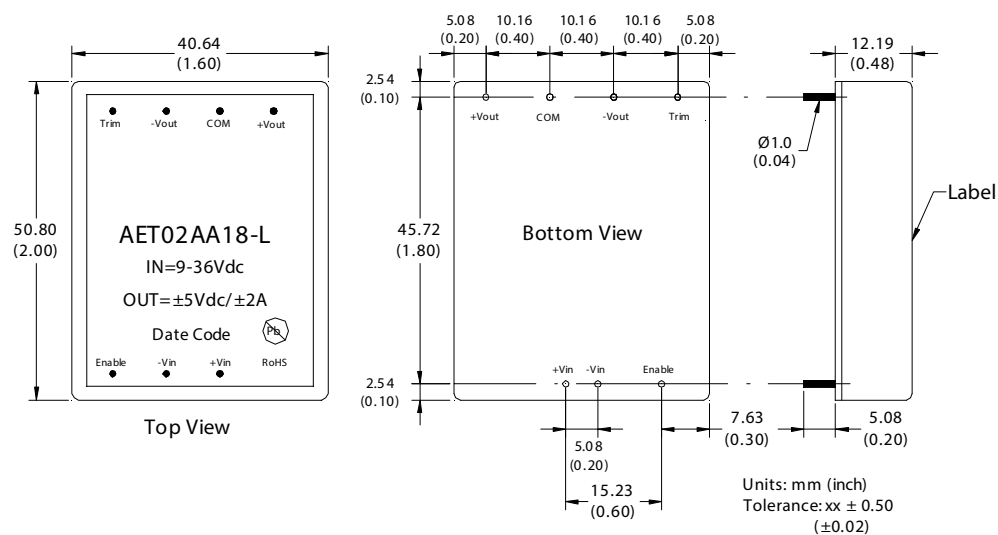
## ORDERING INFORMATION

| Model Number | Input Voltage | Output Voltage 1 | Output Voltage 2 | Maximum Power |
|--------------|---------------|------------------|------------------|---------------|
| AET06G18-L   | 9 - 36 V      | 2.5 V @ 6 A      |                  | 15 W          |
| AET06F18-L   | 9 - 36 V      | 3.3 V @ 6 A      |                  | 19.8 W        |
| AET04A18-L   | 9 - 36 V      | 5 V @ 4 A        |                  | 20 W          |
| AET01B18-L   | 9 - 36 V      | 12 V @ 1.67 A    |                  | 20 W          |
| AET01C18-L   | 9 - 36 V      | 15 V @ 1.33 A    |                  | 20 W          |
| AET02AA18-L  | 9 - 36 V      | 5 V @ 2 A        | -5 V @ 2 A       | 20 W          |
| AET00BB18-L  | 9 - 36 V      | 12 V @ 0.835 A   | -12 V @ 0.835 A  | 20 W          |
| AET00CC18-L  | 9 - 36 V      | 15 V @ 0.665 A   | -15 V @ 0.665 A  | 20 W          |
| AET06G36-L   | 18 - 75 V     | 2.5 V @ 6 A      |                  | 15 W          |
| AET06F36-L   | 18 - 75 V     | 3.3 V @ 6 A      |                  | 19.8 W        |
| AET04A36-L   | 18 - 75 V     | 5 V @ 4 A        |                  | 20 W          |
| AET01B36-L   | 18 - 75 V     | 12 V @ 1.67 A    |                  | 20 W          |
| AET01C36-L   | 18 - 75 V     | 15 V @ 1.33 A    |                  | 20 W          |
| AET02AA36-L  | 18 - 75 V     | 5 V @ 2 A        | -5 V @ 2 A       | 20 W          |
| AET00BB36-L  | 18 - 75 V     | 12 V @ 0.835 A   | -12 V @ 0.835 A  | 20 W          |
| AET00CC36-L  | 18 - 75 V     | 15 V @ 0.665 A   | -15 V @ 0.665 A  | 20 W          |

## MECHANICAL DRAWING - SINGLE OUTPUT



## MECHANICAL DRAWING - DUAL OUTPUT





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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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