

## AXA Series

10 Watts

### 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 +85 °C
- Output voltage adjustable
- 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                    |

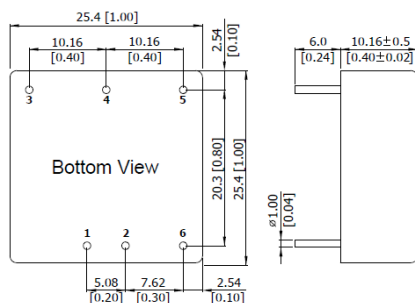
### Environmental Specifications

|                                     |                          |
|-------------------------------------|--------------------------|
| Operating ambient temperature range | -40 °C to +85 °C         |
| Storage temperature                 | -50 °C to +125 °C        |
| Humidity                            | 5% to 95% non-condensing |
| MTBF                                | 350 Khrs calculated      |

## Ordering Information

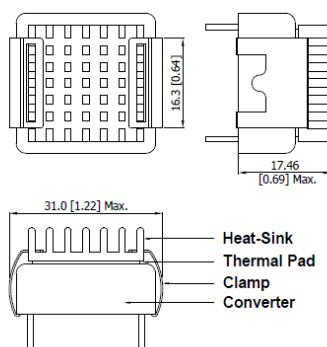
| Part Number  | Input Voltage | Output Voltage | Output Current | Efficiency | Max Output Cap | Power |
|--------------|---------------|----------------|----------------|------------|----------------|-------|
| AXA02F18-L   | 9 - 36 Vdc    | 3.3 V          | 2.2 A          | 86%        | 560 $\mu$ F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

## Mechanical Dimensions



- 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)

## Heatsink (Option -HS)



## 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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