

### Data Sheet

**Total Power:** 40 Watts  
**Input Voltage:** 12 V, 24 V or 48 V  
**# of Outputs:** Single, Dual

### SPECIAL FEATURES

- Encapsulated
- Wide 4:1 input range
- 1" x 2" DIP package
- 1500 Vdc I/O isolation
- Single and Dual output
- OCP, OVP, OTP protection
- Remote On/Off
- High efficiency - 91%
- Operating temp. range -40°C to +85 °C (with derating)

### SAFETY

- UL/cUL 60950-1 (CSA)
- IEC/EN 60950-1



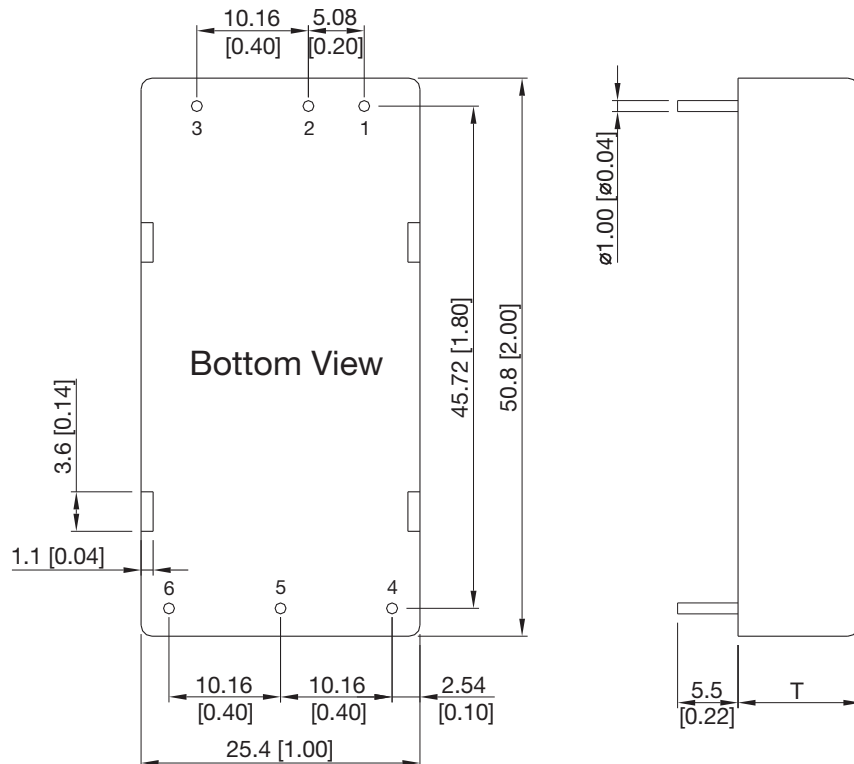
### Electrical Specifications

| Input                   |  |
|-------------------------|--|
| Input range             | 9 to 36 Vdc; 18 to 75 Vdc                  |
| Efficiency <sup>2</sup> | 90% @ 5 Vo                                 |
| Output                  |  |
| Voltage tolerance       | ±1.0%                                      |
| Line regulation         | ±0.5%                                      |
| Load regulation         | Single output: ±0.5%<br>Dual output: ±1.0% |
| Noise/ripple            | 3.3 Vo, 5 Vo: 100 mV<br>Others: 150 mV     |
| OCP and S/C protection  | Hiccup                                     |
| Over voltage protection | Latched                                    |
| OTP protection          | Latched                                    |
| Switching frequency     | 24 Vdc: 286 KHz<br>Others: 320 KHz         |
| Temperature coefficient | ±0.02 /°C                                  |
| Isolation               |  |
| I/O isolation           | 1500 Vdc min.                              |
| 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) |
| Calculated MTBF                     | 328 Khrs                   |

## Mechanical Drawings



### Pin Connectors

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

T: 11.0 mm (0.43 inch) for 24 V Output Models  
 T: 10.2 mm (0.40 inch) for Other Output Models

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

## Physical Characteristics

|                                 |   |
|---------------------------------|---|
| <b>Case Size (24 V Output)</b>  | 50.8 x 25.4 x 11 mm (2.0 x 1.0 x 0.43 inches)     |
| <b>Case Size (Other Output)</b> | 50.8 x 25.4 x 10.2 mm (2.0 x 1.0 x 0.40 inches)   |
| <b>Case Material</b>            | Aluminium Alloy, Black Anodized Coating           |
| <b>Base Material</b>            | FR4 PCB (flammability to UL 94V-0 rated)          |
| <b>Pin Material</b>             | Copper Alloy with Gold Plate Over Nickel Subplate |
| <b>Weight</b>                   | 30 g  |

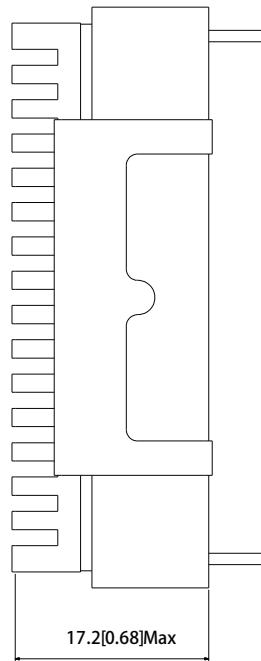
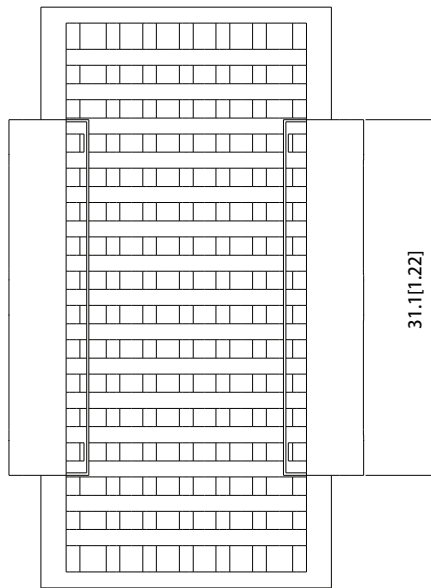
## Ordering Information

| Model Number | Input Voltage | Output 1 Voltage | Output 2 Voltage | Maximum Power |
|--------------|---------------|------------------|------------------|---------------|
| AEE08F18-L   | 9 - 36 V      | 3.3 V @ 8 A      |                  | 26.4 W        |
| AEE08A18-L   | 9 - 36 V      | 5 V @ 8 A        |                  | 40 W          |
| AEE03B18-L   | 9 - 36 V      | 12 V @ 3.33 A    |                  | 40 W          |
| AEE02C18-L   | 9 - 36 V      | 15 V @ 2.67 A    |                  | 40 W          |
| AEE01H18-L   | 9 - 36 V      | 24 V @ 1.67 A    |                  | 40 W          |
| AEE01BB18-L  | 9 - 36 V      | 12 V @ 1.67 A    | -12 V @ 1.67 A   | 40 W          |
| AEE01CC18-L  | 9 - 36 V      | 15 V @ 1.33 A    | -15 V @ 1.33 A   | 40 W          |
| AEE08F36-L   | 18 - 75 V     | 3.3 V @ 8 A      |                  | 26.4 W        |
| AEE08A36-L   | 18 - 75 V     | 5 V @ 8 A        |                  | 40 W          |
| AEE03B36-L   | 18 - 75 V     | 12 V @ 3.33 A    |                  | 40 W          |
| AEE02C36-L   | 18 - 75 V     | 15 V @ 2.67 A    |                  | 40 W          |
| AEE01H36-L   | 18 - 75 V     | 24 V @ 1.67 A    |                  | 40 W          |
| AEE01BB36-L  | 18 - 75 V     | 12 V @ 1.67 A    | -12 V @ 1.67 A   | 40 W          |
| AEE01CC36-L  | 18 - 75 V     | 15 V @ 1.33 A    | -15 V @ 1.33 A   | 40 W          |

To order the converter with heatsink, please add a suffix -HS (e.g. AEE08F18-LHS) to order code.

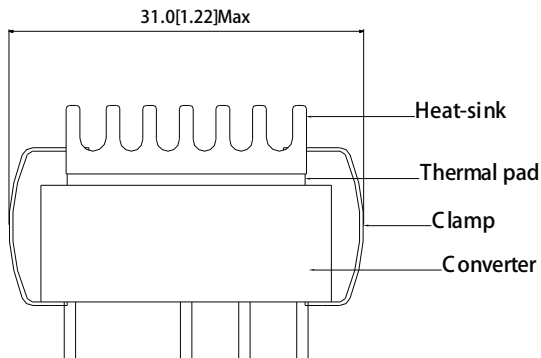
## Mechanical Drawings

### Heatsink (Option -HS)



The advantages of adding a heatsink are:

1. To help heat dissipation and increase the stability and reliability of DC/DC converters at high operating temperature atmosphere.
2. To upgrade the operating temperature of DC/DC converters, please refer to Derating Curve.



### Physical Characteristics

|                           |                        |
|---------------------------|------------------------|
| <b>Heatsink Material:</b> | Aluminum               |
| <b>Finish:</b>            | Black Anodized Coating |
| <b>Weight:</b>            | 9 g                    |

#### Notes:

1. All specifications are subject to change without notice. Mechanical drawings are for reference only.
2. Warranty: 3 yr
3. Label and logo appearance may vary from what is shown on mechanical drawings.

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- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



#### Как с нами связаться

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