

## AEE Series

40 Watts

### 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



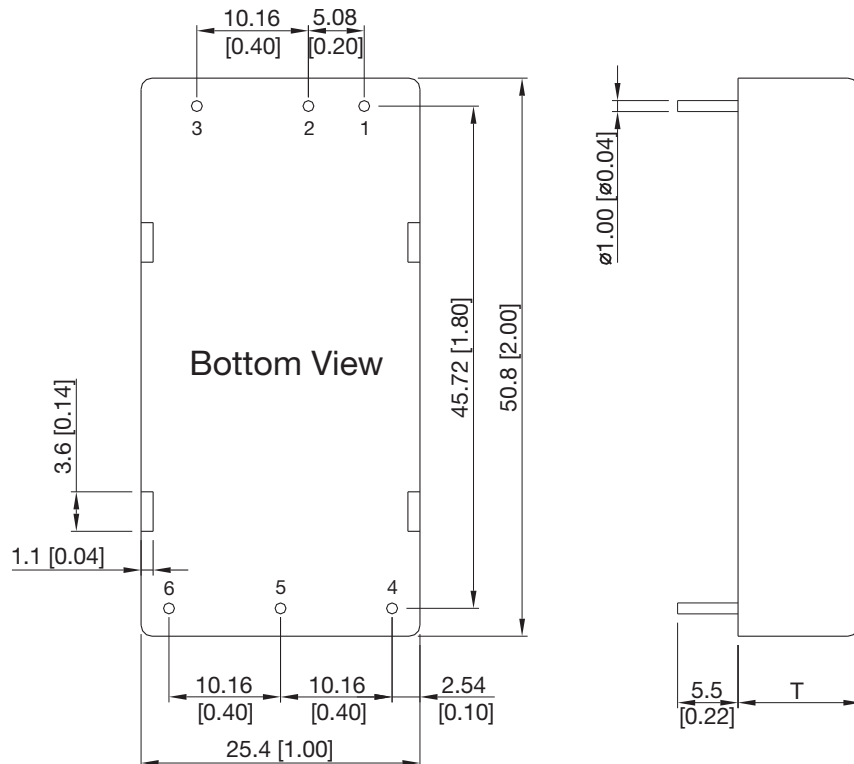
### Electrical Specifications

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% Dual output: ±1.0%
Noise/ripple	3.3 Vo, 5 Vo: 100 mV Others: 150 mV
OCP and S/C protection	Hiccup
Over voltage protection	Latched
OTP protection	Latched
Switching frequency	24 Vdc: 286 KHz 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  $\varnothing 1.00 \pm 0.05$  (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

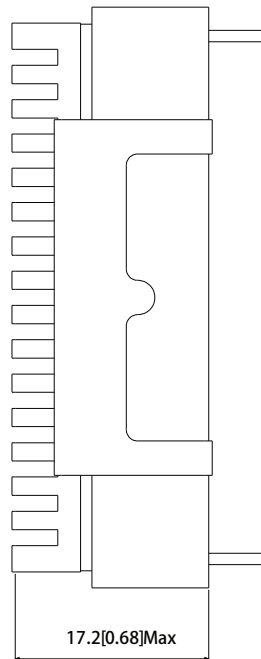
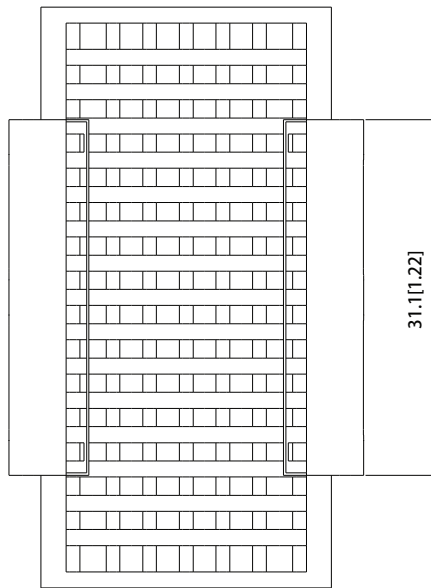
## Ordering Information

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.

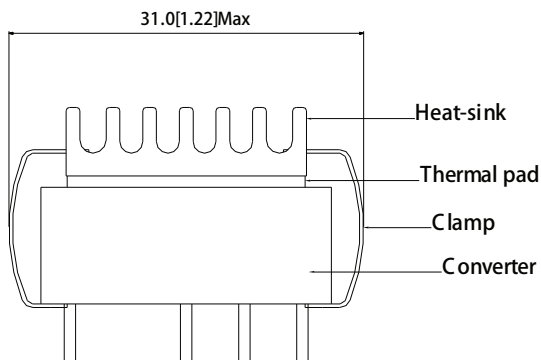
## Mechanical Drawings

### 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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