



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

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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



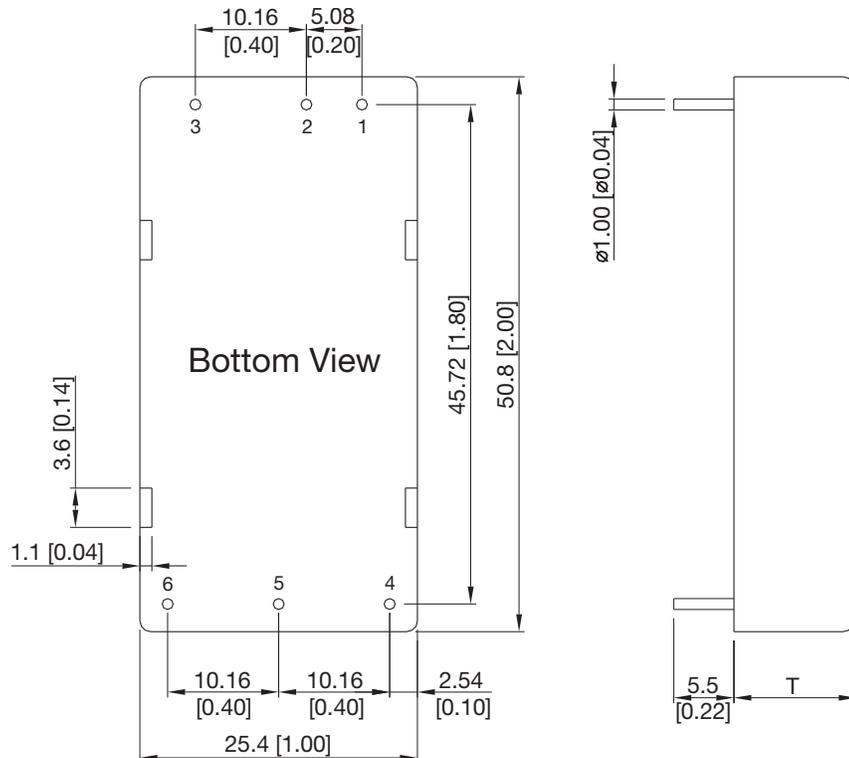
Electrical Specifications

Input	
Input range	9 to 36 Vdc; 18 to 75 Vdc
Efficiency ²	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

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

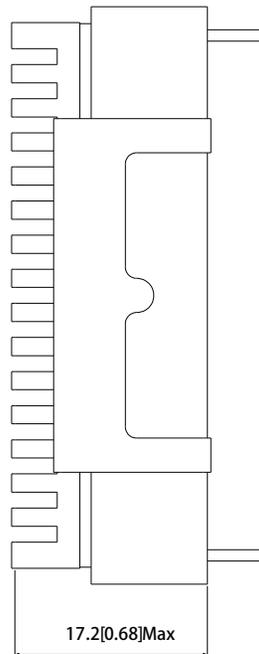
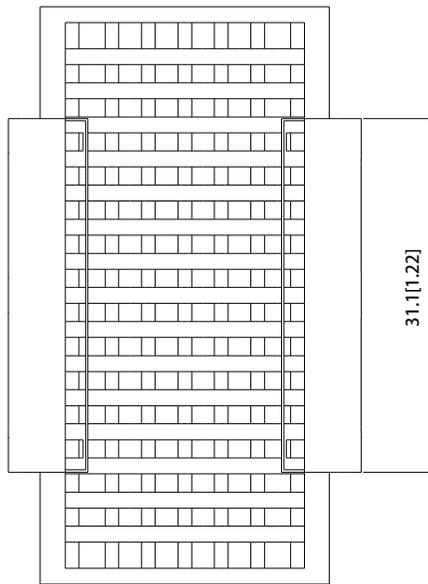
Ordering Information

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.

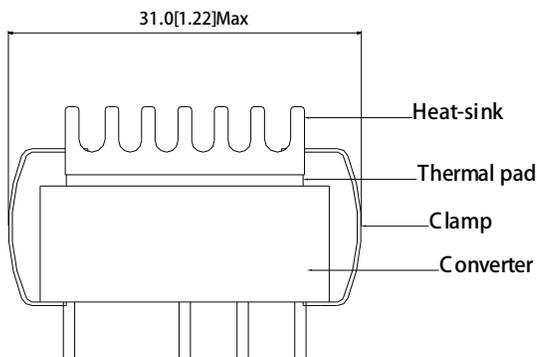
Mechanical Drawings

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

Heatsink Material:	Aluminum
Finish:	Black Anodized Coating
Weight:	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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