

AEE Series

50 Watts

Data Sheet

Total Power: 50 Watts
Input Voltage: 12 V, 24 V or 48 V
of Outputs: Single

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
- Operating Temp. Range -40°C to +85 °C (With derating)

SAFETY

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



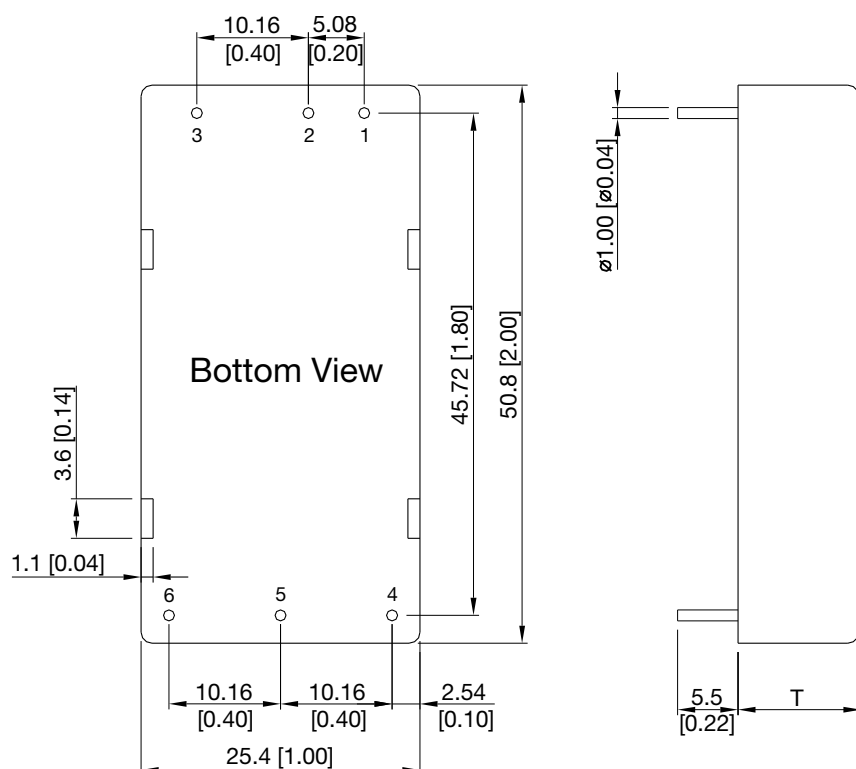
Electrical Specifications

Input	
Input range:	9 to 36 Vdc; 18 to 75 Vdc
Efficiency ² :	92% @ 12 Vo
Output	
Voltage tolerance:	±1.0%
Line regulation:	±0.5%
Load regulation:	Single output: ±0.5%
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:	285 KHz
Temperature coefficient:	±0.02 /°C
Isolation	
I/O isolation	1500 Vdc min.
Insulation resistance:	1000 Mohm
Insulation capacitance:	2200 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:	233 Khrs

Mechanical Drawings



Pin Connectors

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

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

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

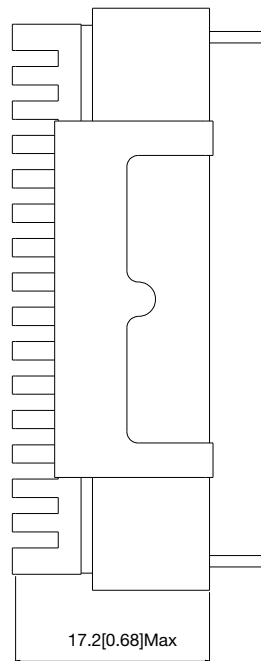
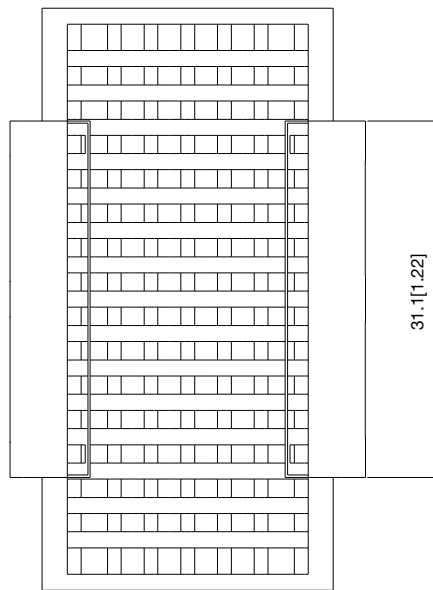
Ordering Information

Model Number	Input Voltage	Output 1 Voltage	Maximum Power
AEE10F18-L	9 - 36 V	3.3 V @ 10 A	33 W
AEE10A18-L	9 - 36 V	5 V @ 10 A	50 W
AEE04B18-L	9 - 36 V	12 V @ 4.17 A	50 W
AEE03C18-L	9 - 36 V	15 V @ 3.33 A	50 W
AEE02H18-L	9 - 36 V	24 V @ 2.08 A	50 W
AEE10F36-L	18 - 75 V	3.3 V @ 10 A	33 W
AEE10A36-L	18 - 75 V	5 V @ 10 A	50 W
AEE04B36-L	18 - 75 V	12 V @ 4.17 A	50 W
AEE03C36-L	18 - 75 V	15 V @ 3.33 A	50 W
AEE02H36-L	18 - 75 V	24 V @ 2.08 A	50 W

To order the converter with heatsink, please add a suffix -HS (e.g. AEE10F18-LHS) to order code.

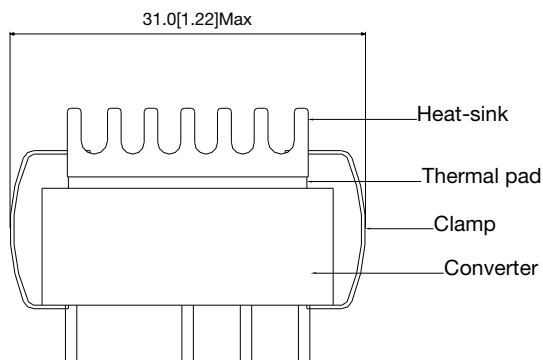
Mechanical Drawings

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.

WORLDWIDE OFFICES

Americas

2900 S.Diablo Way
Tempe, AZ 85282
USA
+1 888 412 7832

Europe (UK)

Waterfront Business Park
Merry Hill, Dudley
West Midlands, DY5 1LX
United Kingdom
+44 (0) 1384 842 211

Asia (HK)

14/F, Lu Plaza
2 Wing Yip Street
Kwun Tong, Kowloon
Hong Kong
+852 2176 3333

ARTESYN[™]
EMBEDDED TECHNOLOGIES

www.artesyn.com

While every precaution has been taken to ensure accuracy and completeness in this literature, Artesyn Embedded Technologies assumes no responsibility, and disclaims all liability for damages resulting from use of this information or for any errors or omissions. Artesyn Embedded Technologies, Artesyn and the Artesyn Embedded Technologies logo are trademarks and service marks of Artesyn Embedded Technologies, Inc. All other names and logos referred to are trade names, trademarks, or registered trademarks of their respective owners. © 2014 Artesyn Embedded Technologies, Inc.

For more information: www.artesyn.com/power
For support: productsupport.ep@artesyn.com

Данный компонент на территории Российской Федерации

Вы можете приобрести в компании MosChip.

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

Офис по работе с юридическими лицами:

105318, г.Москва, ул.Щербаковская д.3, офис 1107, 1118, ДЦ «Щербаковский»

Телефон: +7 495 668-12-70 (многоканальный)

Факс: +7 495 668-12-70 (доб.304)

E-mail: info@moschip.ru

Skype отдела продаж:

moschip.ru

moschip.ru_4

moschip.ru_6

moschip.ru_9