

## AEE15W-M Series

15 Watts

### Data Sheet

**Total Power:** 15 Watts  
**Input Voltage:** 12 V, 24 V or 48 V  
**# of Outputs:** Single, Dual

### SPECIAL FEATURES

- 4200 Vac reinforced insulation
- Insulation rated for 300 Vac working voltage
- Medical safety certifications
- 2x MOPP rated
- Wide 2:1 input voltage range
- Low leakage current <5  $\mu$ A
- Operating temperature range -40 °C to +85 °C (with derating)
- Input filter meets EN 55022, Class A and FCC, Level A
- Medical EMC Standard meets 4th Edition of EMI EN55011 and EMS EN60601-1-2
- 2"x 1" plastic package
- Three-year product warranty

### SAFETY

- EN/IEC 60601-1 3rd Edition, ANSI/AAMI ES60601-1
- 2x MOPP
- CE Mark



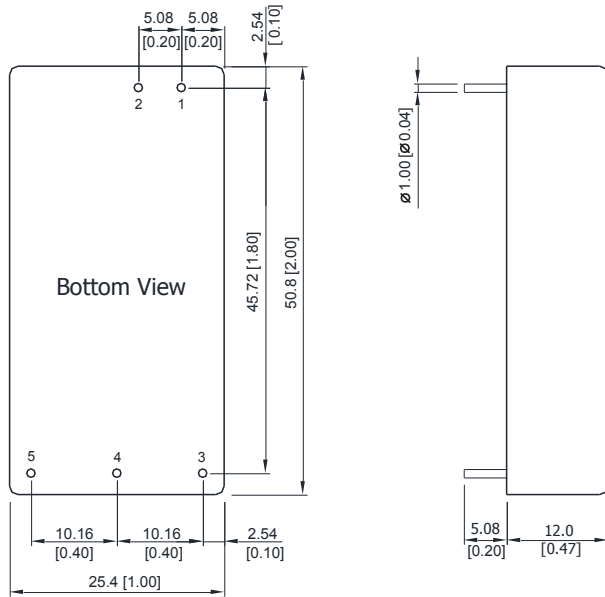
### Electrical Specifications

Input	
Input range	9 - 18 Vdc; 18 - 36 Vdc; 36 - 75 Vdc
Efficiency	89%
Output	
Voltage tolerance	$\pm$ 1.0%
Line regulation	$\pm$ 0.5%
Load regulation	1.0%
Noise/ripple	150 mV
OCP and S/C protection	150%, Hiccup
Overvoltage protection	110%
Switching frequency	285 KHz
Temperature co-efficient	$\pm$ 0.02/°C
Isolation	
I/O isolation	4200 Vac rms
Insulation resistance	10 Gohm
Insulation capacitance	80 pF

### Environmental Specifications

Operating ambient temperature range	-40 °C to +80 °C
Storage temperature	-50 °C to +125 °C
Humidity	5% to 95% (non-condensing)
Calculated MTBF	1 Mhrs

## Mechanical Drawing



### Pin Connectors

Pin No.	Single Output	Dual Output
1	+Vin	+Vin
2	-Vin	-Vin
3	+Vout	+Vout
4	No Pin	Common
5	-Vout	-Vout

- All dimensions in mm (inches)
- Tolerance: X.X±0.5 (X.XX±0.02)  
X.XX±0.25 (X.XXX±0.001)
- Pin diameter 1.0 ±0.5 (0.04±0.002)

### Physical Characteristics

<b>Case Size</b>	50.8 x 25.4 x 12 mm (2.0 x 1.0 x 0.47 inches)
<b>Case Material</b>	Non-Conductive Black Plastic (flammability to UL94V-0 rated)
<b>Pin Material</b>	Tinned Copper
<b>Weight</b>	30 g

## Ordering Information

Artesyn Part number	Input Voltage	Output 1 Voltage	Output 2 Voltage	Maximum Power
AEE03A12-M	9 - 18 V	5 V @ 3 A		15 W
AEE01B12-M	9 - 18 V	12 V @ 1.25 A		15 W
AEE01C12-M	9 - 18 V	15 V @ 1 A		15 W
AEE01H12-M	9 - 18 V	24 V @ 0.625 A		15 W
AEE01BB12-M	9 - 18 V	12 V @ 0.625 A	-12 V @ 0.625 A	15 W
AEE01CC12-M	9 - 18 V	15 V @ 0.5 A	-15 V @ 0.5 A	15 W
AEE03A24-M	18 - 36 V	5 V @ 3 A		15 W
AEE01B24-M	18 - 36 V	12 V @ 1.25 A		15 W
AEE01C24-M	18 - 36 V	15 V @ 1 A		15 W
AEE01H24-M	18 - 36 V	24 V @ 0.625 A		15 W
AEE01BB24-M	18 - 36 V	12 V @ 0.625 A	-12 V @ 0.625 A	15 W
AEE01CC24-M	18 - 36 V	15 V @ 0.5 A	-15 V @ 0.5 A	15 W
AEE03A48-M	36 - 75 V	5 V @ 3 A		15 W
AEE01B48-M	36 - 75 V	12 V @ 1.25 A		15 W
AEE01C48-M	36 - 75 V	15 V @ 1 A		15 W
AEE01H48-M	36 - 75 V	24 V @ 0.625 A		15 W
AEE01BB48-M	36 - 75 V	12 V @ 0.625 A	-12 V @ 0.625 A	15 W
AEE01CC48-M	36 - 75 V	15 V @ 0.5 A	-15 V @ 0.5 A	15 W

## WORLDWIDE OFFICES

### Americas

2900 South Diablo Way  
Suite B100  
Tempe, AZ 85282, USA  
+1 888 412 7832

### Europe (UK)

Ground Floor Offices, Barbary House  
4 Harbour Buildings, Waterfront West  
Brierley Hill, West Midlands  
DY5 1LN, UK  
+44 (0) 1384 842 211

### Asia (HK)

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

**ARTESYN**<sup>TM</sup>  
An Advanced Energy Company

[www.artesyn.com](http://www.artesyn.com)

For more information: [www.artesyn.com](http://www.artesyn.com)  
For support: [productsupport.ep@artesyn.com](mailto:productsupport.ep@artesyn.com)

Artesyn Embedded Technologies, Artesyn Embedded Power, Artesyn, and all Artesyn related logos 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. Specifications are subject to change without notice. © 2019 Artesyn Embedded Technologies, Inc. All rights reserved. For full legal terms and conditions, please visit [www.artesyn.com/legal](http://www.artesyn.com/legal).

# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

## Artesyn Embedded Technologies:

[AEE01B12-M](#) [AEE01B24-M](#) [AEE01B48-M](#) [AEE01BB12-M](#) [AEE01BB24-M](#) [AEE01BB48-M](#) [AEE01C12-M](#)  
[AEE01C24-M](#) [AEE01C48-M](#) [AEE01CC12-M](#) [AEE01CC24-M](#) [AEE01CC48-M](#) [AEE01H12-M](#) [AEE01H24-M](#)  
[AEE01H48-M](#) [AEE03A12-M](#) [AEE03A24-M](#) [AEE03A48-M](#)