

## AEE10W-M Series

10 Watts

### Data Sheet

**Total Power:** 10 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 to UL/CSA/EN/IEC 60601-1 3<sup>rd</sup> Edition
- 2 MOOP rated
- Wide 2:1 input voltage range
- Fully regulated output voltage
- Low leakage current
- Operating temp. range -40°C to +85 °C (with derating)
- Input filter meets EN 55022, class A and FCC, level A
- Overload protection
- 2"x 1" plastic package
- 3 years product warranty

### SAFETY

- cUL/UL60950-1, CSA C22.2 No. 60950-1-03
- UL60601-1, CSA C22.2 No.601-1
- IEC/EN 60950-1, IEC/EN 60601-1 3<sup>rd</sup> Edition, 2 MOOP
- IEC60950-1 CB report, cUL/UL 60950-1 certificate
- UL60601-1 UL certificate
- Medical EMC Standard meets 4th Edition of EMI EN55011 and EMS EN60601-1-2



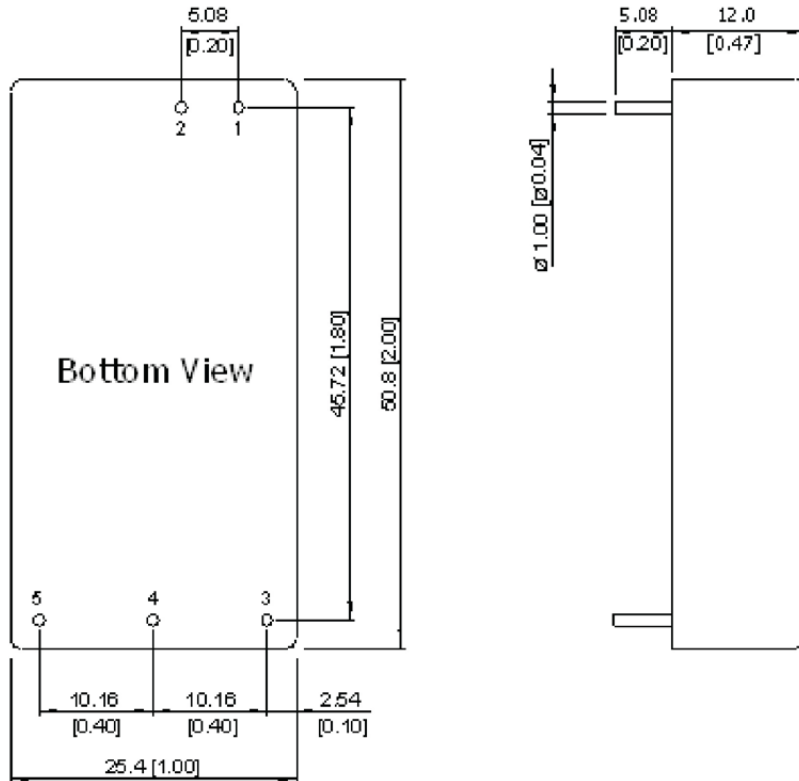
### Electrical Specifications

Input	
Input range	9 - 18 Vdc; 18 - 36 Vdc; 36 - 75 Vdc
Efficiency	82%
Output	
Voltage tolerance	±1.0%
Line regulation	±0.5%
Load regulation	1.2%
Noise/ripple	100 mV
OCP and S/C protection	Hiccup
Over voltage protection	Latched
OTP protection	Latched
Switching frequency	150 KHz
Temperature coefficient	±0.02 /°C
Isolation	
I/O isolation	4200 Vrms 300 Vrms working voltage according to IEC/EN 60601-1 1000 Vrms working voltage according to IEC/EN 60950-1
Insulation resistance	10 Gohm
Insulation capacitance	80 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	1 Mhrs

## Mechanical Drawings



### Pin Connectors

Pin No.	Single Output	Dual Output
1	+Vin	+Vin
2	-Vin	-Vin
3	+Vout	+Vout
4	No Pin	Common
5	-Vout	-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 dimension tolerance: ±0.05 (±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

Artesyn Part number	Input Voltage	Output 1 Voltage	Output 2 Voltage	Maximum Power
AEE01A12-M	9 - 18 V	5 V @ 1.6 A		8 W
AEE00B12-M	9 - 18 V	12 V @ 0.835 A		10 W
AEE00BB12-M	9 - 18 V	12 V @ 0.417 A	-12 V @ 0.417 A	10 W
AEE00CC12-M	9 - 18 V	15 V @ 0.333 A	-15 V @ 0.333 A	10 W
AEE02A24-M	18 - 36 V	5 V @ 2 A		10 W
AEE00B24-M	18 - 36 V	12 V @ 0.835 A		10 W
AEE00BB24-M	18 - 36 V	12 V @ 0.417 A	-12 V @ 0.417 A	10 W
AEE00CC24-M	18 - 36 V	15 V @ 0.333 A	-15 V @ 0.333 A	10 W
AEE02A48-M	36 - 75 V	5 V @ 2 A		10 W
AEE00B48-M	36 - 75 V	12 V @ 0.835 A		10 W
AEE00BB48-M	36 - 75 V	12 V @ 0.417 A	-12 V @ 0.417 A	10 W
AEE00CC48-M	36 - 75V	15 V @ 0.333 A	-15 V @ 0.333 A	10 W

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

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. Specifications are subject to change without notice. © 2017 Artesyn Embedded Technologies, Inc. All rights reserved. For full legal terms and conditions, please visit [www.artesyn.com/legal](http://www.artesyn.com/legal).

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