

## 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



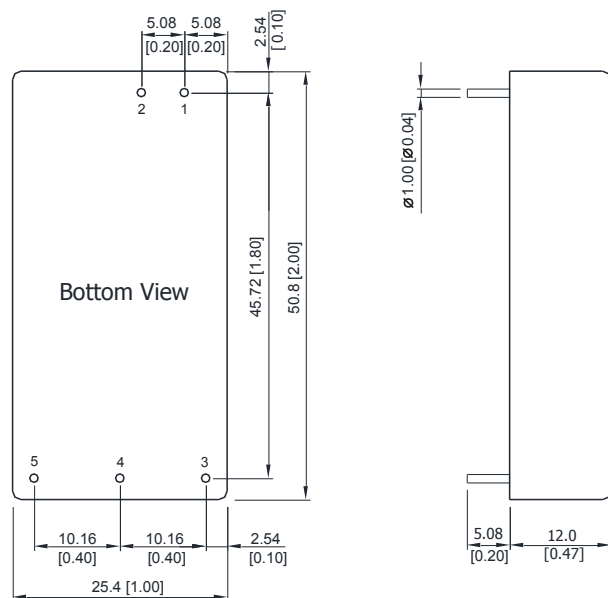
### Electrical Specifications

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

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

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