

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 3rd 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 3rd 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



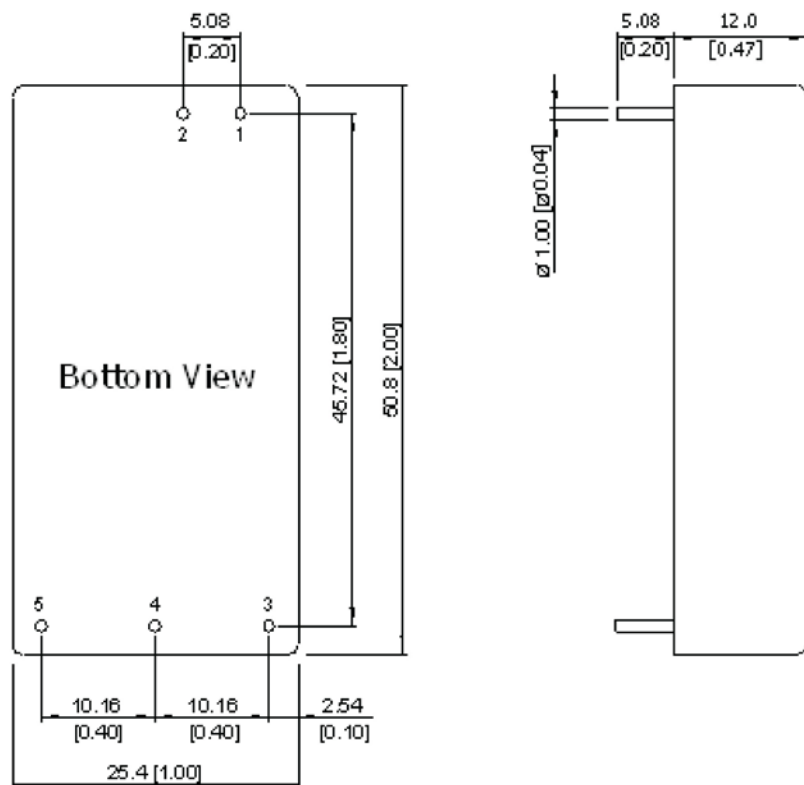
Electrical Specifications

| 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

| | |
|---------------------------------|--|
| 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

| 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 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[™]
 An Advanced Energy Company

www.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.

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