

AEE20W-M Series

20 Watts

Data Sheet

Total Power: 20 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 μ 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



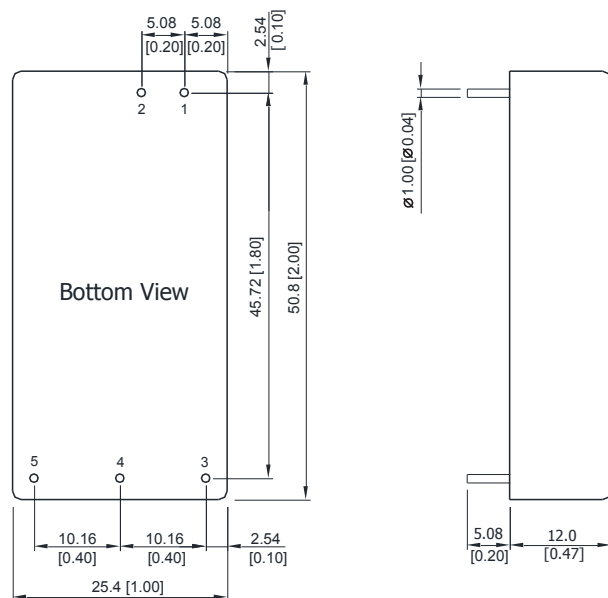
Electrical Specifications

| 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

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

Ordering Information

| Artesyn Part number | Input Voltage | Output 1 Voltage | Output 2 Voltage | Maximum Power |
|---------------------|---------------|------------------|------------------|---------------|
| AEE04A12-M | 9 - 18 V | 5 V @ 4 A | | 20 W |
| AEE02B12-M | 9 - 18 V | 12 V @ 1.67 A | | 20 W |
| AEE02C12-M | 9 - 18 V | 15 V @ 1.33 A | | 20 W |
| AEE02H12-M | 9 - 18 V | 24 V @ 0.84 A | | 20 W |
| AEE02BB12-M | 9 - 18 V | 12 V @ 0.84 A | -12 V @ 0.84 A | 20 W |
| AEE02CC12-M | 9 - 18 V | 15 V @ 0.67 A | -15 V @ 0.67 A | 20 W |
| AEE04A24-M | 18 - 36 V | 5 V @ 4 A | | 20 W |
| AEE02B24-M | 18 - 36 V | 12 V @ 1.67 A | | 20 W |
| AEE02C24-M | 18 - 36 V | 15 V @ 1.33 A | | 20 W |
| AEE02H24-M | 18 - 36 V | 24 V @ 0.84 A | | 20 W |
| AEE02BB24-M | 18 - 36 V | 12 V @ 0.84 A | -12 V @ 0.84 A | 20 W |
| AEE02CC24-M | 18 - 36 V | 15 V @ 0.67 A | -15 V @ 0.67 A | 20 W |
| AEE04A48-M | 36 - 75 V | 5 V @ 4 A | | 20 W |
| AEE02B48-M | 36 - 75 V | 12 V @ 1.67 A | | 20 W |
| AEE02C48-M | 36 - 75 V | 15 V @ 1.33 A | | 20 W |
| AEE02H48-M | 36 - 75 V | 24 V @ 0.84 A | | 20 W |
| AEE02BB48-M | 36 - 75 V | 12 V @ 0.84 A | -12 V @ 0.84 A | 20 W |
| AEE02CC48-M | 36 - 75 V | 15 V @ 0.67 A | -15 V @ 0.67 A | 20 W |

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