

ARTESYN AEE10W-M SERIES

10 Watts



The AEE10W-M series of 10 watt isolated DC-DC converters are designed for demanding instrumentation applications that require supplementary or reinforced insulation to comply with stringent industrial or medical safety standards.

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 $+85^{\circ}\text{C}$ (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



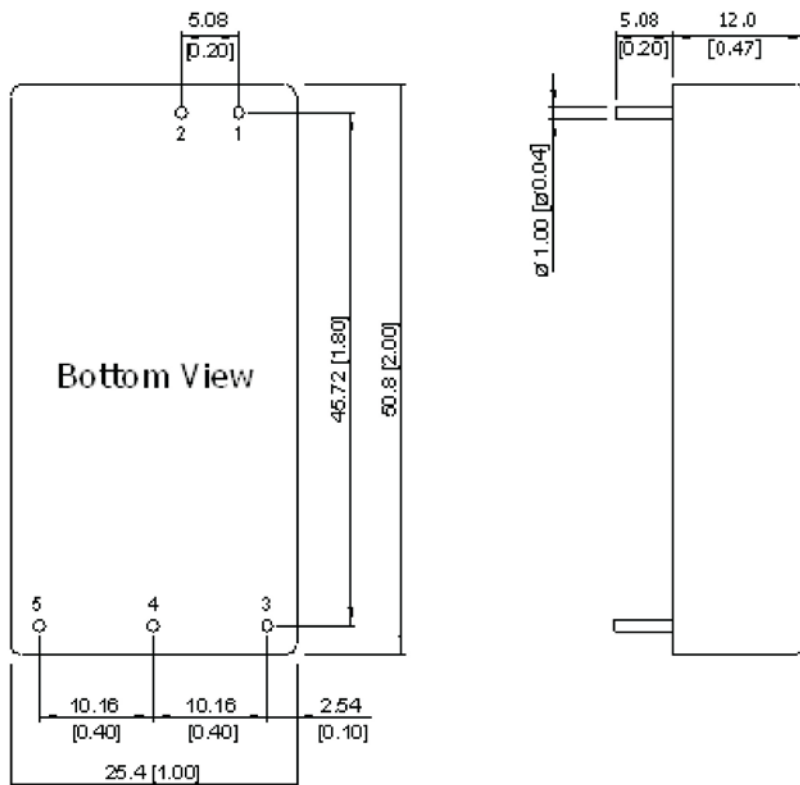
ELECTRICAL SPECIFICATIONS

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



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PRECISION | POWER | PERFORMANCE

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