POWER

AEE10W-M Series

10 Watts

Data Sheet

Total Power: 10 Watts
Input Voltage: 12 V, 24 V or 48 V
# of Outputs: Single, Dual



RoHS 6/6 COMPLIANT

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

Electrical Specifications

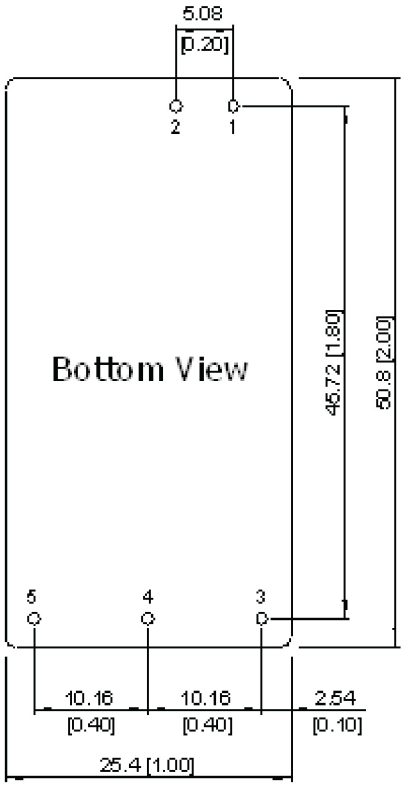
Input	
Input range	9 - 18 Vdc; 18 - 36 Vdc; 36 - 75 Vdc
Efficiency	82%
Output	
Voltage tolerance	±1.0%
Line regulation	±0.5%
Load regulation	1.2%
Noise/ripple	100 mV
OCP and S/C protection	Hiccup
Over voltage protection	Latched
OTP protection	Latched
Switching frequency	150 KHz
Temperature coefficient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

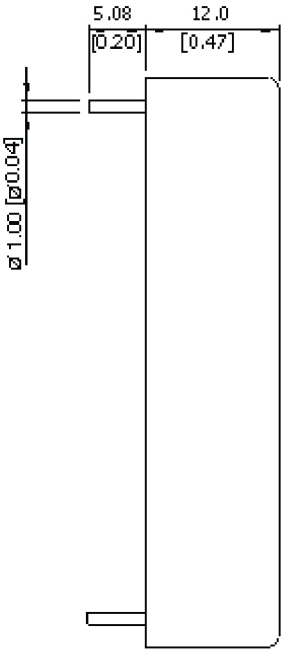
Environmental Specifications

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

ARTESYN™
EMBEDDED TECHNOLOGIES

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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