



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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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



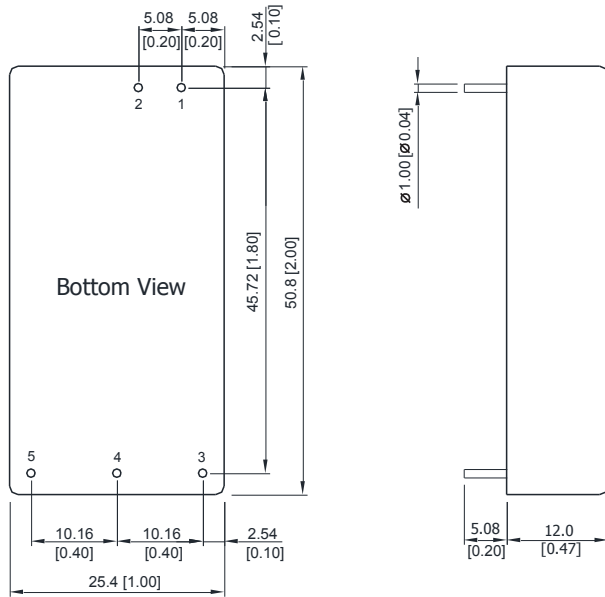
Electrical Specifications

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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