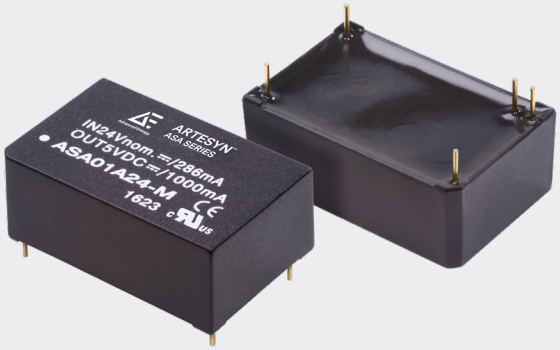
ARTESYN
ASA 6W-M SERIES

6 Watts



Advanced Energy's Artesyn ASA6W-M series of 6 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.

SPECIAL FEATURES

- 4000 Vac reinforced insulation
- Medical safety to UL/cUL/EN/ IEC 60601-1 3rd Edition
- 2 MOOP rated
- Wide 2:1 input voltage range
- Fully regulated output voltage
- Low leakage current
- Operating temperture range –40 °C to +75 °C (with derating)
- Input filter meets EN 55022, class A and FCC, level A
- Overload protection
- 1.25" x 0.8" package
- RoHS compliant
- Three-year product warranty

SAFETY

- cUL/UL62368-1, CSA C22.2 No. 62368-1-03
- UL60601-1, CSA C22.2 No.601-1
- IEC/EN 62368-1, IEC/EN 60601-1 3rd Edition, 2 MOOP
- cUL/UL62368-1 certificate
- UL60601-1 UL certificate

AT A GLANCE

Total Power

6 Watts

Input Voltage

12 V, 24 V or 48 V

of Outputs

Single, Dual

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ELECTRICAL SPECIFICATIONS

Input	
Input range	9 - 18 Vdc; 18 - 36 Vdc; 36 - 75 Vdc
Efficiency	80%
Output	
Voltage tolerance	±1.0%
Line regulation	±0.5%
Load regulation	1.0%
Noise/ripple	180 mV
OCP and S/C protection	Foldback, auto-cover
Switching frequency	150 KHz
Temperature coefficient	±0.05 /°C
Isolation	
I/O isolation	4000 Vac rms
Insulation resistance	10 Gohm
Insulation capacitance	13 pF

ENVIRONMENTAL SPECIFICATIONS

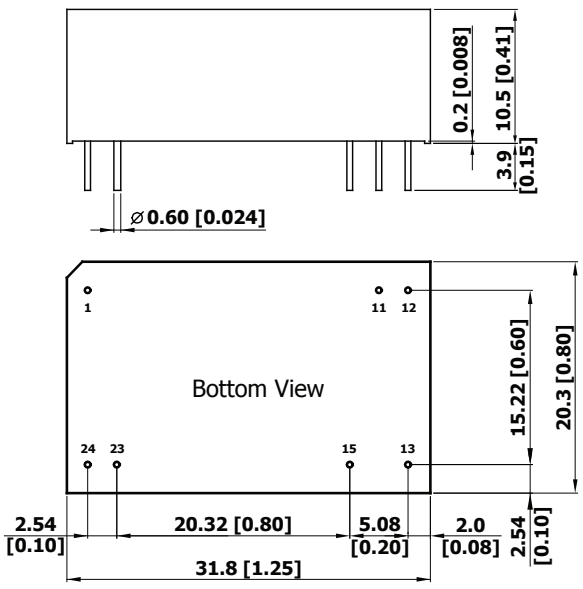
Operating ambient temperature range	-40 °C to +75 °C
Storage temperature	-50 °C to +125 °C
Humidity	5% to 95% (non-condensing)
MTBF	1,000,000 hours

ORDERING INFORMATION

Model Number	Input Voltage	Output 1 Voltage	Output 2 Voltage	Maximum Power
ASA01A12-M	9 - 18 V	5 V @ 1 A		5 W
ASA01B12-M	9 - 18 V	12 V @ 0.5 A		6 W
ASA01BB12-M	9 - 18 V	12 V @ 0.25 A	-12 V @ 0.25 A	6 W
ASA01CC12-M	9 - 18 V	15 V @ 0.2 A	-15 V @ 0.2 A	6 W
ASA01A24-M	18 - 36 V	5 V @ 1 A		5 W
ASA01B24-M	18 - 36 V	12 V @ 0.5 A		6 W
ASA01BB24-M	18 - 36 V	12 V @ 0.25 A	-12 V @ 0.25 A	6 W
ASA01CC24-M	18 - 36 V	15 V @ 0.2 A	-15 V @ 0.2 A	6 W
ASA01A48-M	36 - 75 V	5 V @ 1 A		5 W
ASA01B48-M	36 - 75 V	12 V @ 0.5 A		6 W
ASA01BB48-M	36 - 75 V	12 V @ 0.25 A	-12 V @ 0.25 A	6 W
ASA01CC48-M	36 - 75V	15 V @ 0.2 A	-15 V @ 0.2 A	6 W

Please contact Artesyn Embedded Power for information on other output voltages, power ranges and configurations.

MECHANICAL DRAWINGS



Physical Characteristics	
Case Size	31.8 x 20.3 x 12 mm (1.25 x 0.8 x 0.47 inches
Case Material	Non-Conductive Black Plastic (flammability to UL 94V-0 rated)
Weight	18 g

Pin Connectors		
Pin Number	Single Output	Dual Output
1	+Vin	+Vin
11	No Pin	Common
12	-Vout	No Pin
13	+Vout	-Vout
15	No Pin	+Vout
23	-Vin	-Vin
24	-Vin	-Vin

All dimensions in mm (inches)
Tolerance: X.X±0.25 (X.XX±0.01)
X.XX±0.13 (X.XXX±0.005)
Pin pitch tolerance: ±0.25 (±0.01)
Pin dimension tolerance: ±0.1 (±0.004)

ABOUT ADVANCED ENERGY

Advanced Energy (AE) has devoted more than three decades to perfecting power for its global customers. AE designs and manufactures highly engineered, precision power conversion, measurement and control solutions for mission-critical applications and processes.

Our products enable customer innovation in complex applications for a wide range of industries including semiconductor equipment, industrial, manufacturing, telecommunications, data center computing, and medical. With deep applications know-how and responsive service and support across the globe, we build collaborative partnerships to meet rapid technological developments, propel growth for our customers, and innovate the future of power.

PRECISION | POWER | PERFORMANCE

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