# ARTESYN AGF800-048 SERIES

800 Watts




Advanced Energy's Artesyn AGF800 series of isolated DC-DC converters is designed for RF applications such as high power wireless base stations that use both 28V for LDMos and 48V for gallium nitride (GaN) technology for increased power density and efficiency

## SPECIAL FEATURES

- 2:1 wide input range
- Extra wide trim range
- Optimised for high density, small space applications
- Low ripple and noise
- Fixed switching frequency
- Super high efficiency
- High capacitive load capability
- Basic insulation system
- Aluminium substrate
- Functions
- Power good
- Auxiliary power rail

## SAFETY

- TUV/CE 62368-1
- UL/cUL 60950-1

DATA SHEET

**Total Power:**

800 Watts

**Input Voltage:**

36 - 75 V

**# of Outputs:**

Single

RoHS 6/6 COMPLIANT

©2020 Advanced Energy Industries, Inc.

## ELECTRICAL SPECIFICATIONS

| | |
|---|---|
| **Input** | |
| Input range | 36 - 75 VDC |
| Efficiency | 94.5% |
| **Output** | |
| Voltage tolerance | +/-1% |
| Line regulation | 96 mV |
| Load regulation | 240 mV |
| Noise/ripple | 480 mV |
| Overvoltage protection | Hiccup |
| Overtemperature protection | Auto restart |
| Switching frequency | 290 KHz |
| Temperature co-efficient | ±0.02/°C |
| **Isolation** | |
| I/O isolation | 1500 VDC min. |

## ENVIRONMENTAL SPECIFICATIONS

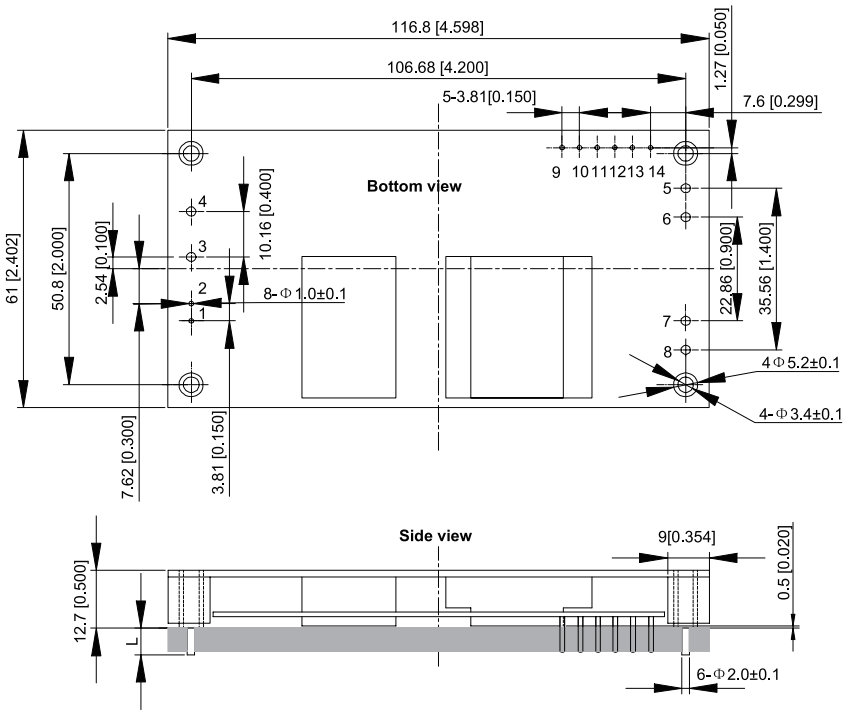
| | |
|---|---|
| Operating ambient temperature range | -40 °C to + 85 °C |
| Storage temperature | -55 °C to +125 °C |
| Humidity | 5% to 95% (non-condensing) |
| MTBF | 1.5 Million hours |
| RoHS Compliant | |

## ORDERING INFORMATION

| Model number | Input voltage | Output voltage | Power |
|---|---|---|---|
| AGF800-48S48P-6L | 36 - 75 Vin | 48 V @ 16.7 A | 800 W |

Standard version is negative enable
"-6" = 3.8 mm pin length
"-L" = RoHS 6 compliance
"P" = Positive Enable

## MECHANICAL DRAWING




Unit: mm[inch]

Bottom view: pin on upside

Tolerance: X.Xmm±0.5mm[X.X in.±0.02in.]
X.XXmm±0.25mm[X.XX in.±0.01in.]

## PIN ASSIGNMENTS

| Pin # | Function |
|---|---|
| 1 | +On/Off |
| 2 | -On/Off |
| 3 | Vin+ |
| 4 | Vin- |
| 5,6 | Vo- |
| 7,8 | Vo+ |
| 9 | AUX |
| 10 | IOG |
| 11 | |
| 12 | Trim |
| 13 | +S |
| 14 | -S |

Notes:
1. All specifications are subject to change without notice. Mechanical drawings are for reference only.
2. Warranty: 2 years
3. Label and logo appearance may vary from what is shown on mechanical drawings.

## 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

For international contact information,
visit advancedenergy.com.

powersales@aei.com (Sales Support)
productsupport.ep@aei.com (Technical Support)
+1 888 412 7832

Specifications are subject to change without notice. Not responsible for errors or omissions. ©2020 Advanced Energy Industries, Inc. All rights reserved. Advanced Energy®, AE® and Artesyn™ are U.S. trademarks of Advanced Energy Industries, Inc.

ENG-AGF800-048-235-01 12.15