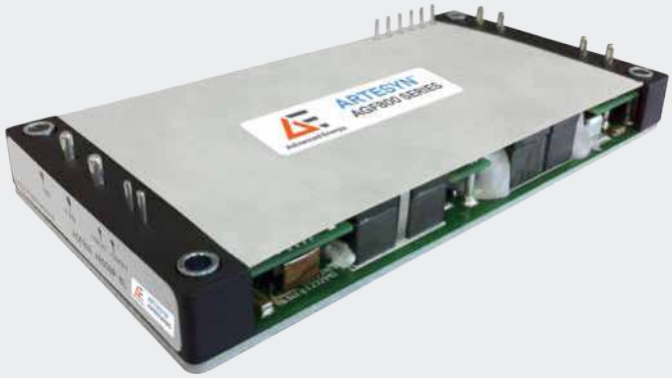
ARTESYN AGF800-048 SERIES

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

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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

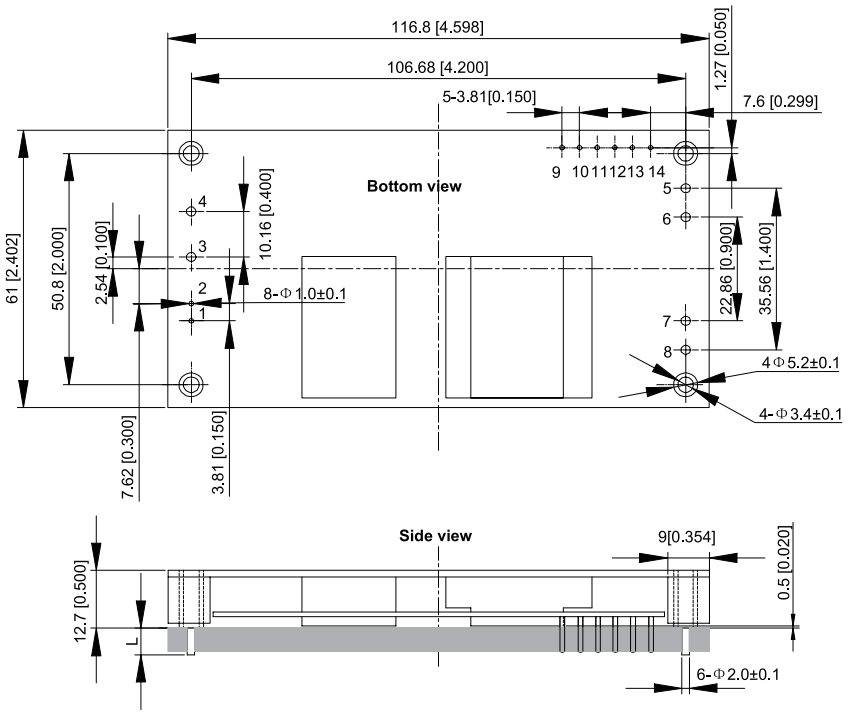
Operating ambient temperature range	-40 °C to + 85 °C
Storage temperature	-55 °C to +125 °C
Humidity	5% to 95% (non-condensing)
MTBF	1.5 Million hours
RoHS Compliant	

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

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