ARTESYN AGF700 SERIES

700 Watts



Advanced Energy's Artesyn AGF700 series isolated DC-DC converter is designed for the type of RF power amplifiers used in micro and macro cell, NodeB/eNodeB and remote radio head (RRH) telecommunications applications.

DATA SHEET

Total Power:

700 Watts

Input Voltage:

36 - 75 V

# of Outputs:

Single

RoHS 6/6 COMPLIANT

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

©2020 Advanced Energy Industries, Inc.

ELECTRICAL SPECIFICATIONS

Input	
Input range	36 - 75 VDC
Efficiency[2]	94.5%
Output	
Voltage tolerance	+/-1%
Line regulation	15 mV
Load regulation	60 mV
Noise/ripple	250 mV
Overvoltage protection	Hiccup
Overtemperature protection	Auto restart
Switching frequency	320 KHz
Temperature co-efficient:	±0.02/°C
Isolation	
I/O isolation	1500 VDC min.

ENVIRONMENTAL SPECIFICATIONS

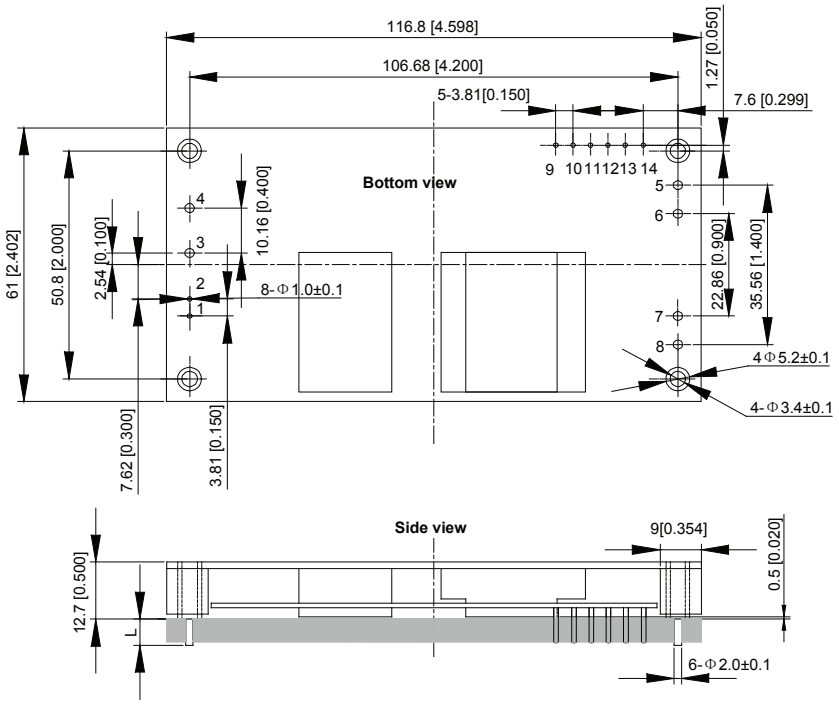
Operating ambient temperature range	-40 °C to +85 °C
Storage temperature	-55 °C to +125 °C
Humidity	5% to 95% (non-condensing)
MTBF	1.5 Million hours
RoHS Compliant	

ORDERING INFORMATION

Model number	Input voltage	Output voltage	Power
AGF700-48S30LT	36-75 Vin	30 V @ 25 A	700 W

Standard version is negative enable
"-6" = 3.8mm pin length
"-L" = RoHS 6 compliance
"-T" = Through-hole fixture

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 LENGTH OPTION

Device code suffix	L
-4	4.8 mm ± 0.5 mm
-6	3.8 mm ± 0.5 mm
-8	2.8 mm ± 0.5 mm
None	5.8 mm ± 0.5 mm

PIN ASSIGNMENTS

Pin No.	Name	Function
1	+On/Off	Remote control
2	-On/Off	Remote control
3	V_{in}+	Positive input voltage
4	V_{in}-	Negative input voltage
5,6	V_o-	Negative output voltage
7,8	V_o+	Positive output voltage
9	AUX	Auxiliary voltage
10	IOG	Inverter operation good
11	NC	
12	Trim	Trim terminal
13	+S	Remote sensing +
14	-S	Remote sensing -

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-AGF700-235-01 12.15