

# 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.

## 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:

700 Watts

### Input Voltage:

36 - 75 V

### # of Outputs:

Single



## ELECTRICAL SPECIFICATIONS

| Input                      |               |
|----------------------------|---------------|
| Input range                | 36 - 75 VDC   |
| Efficiency <sup>2</sup>    | 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 |

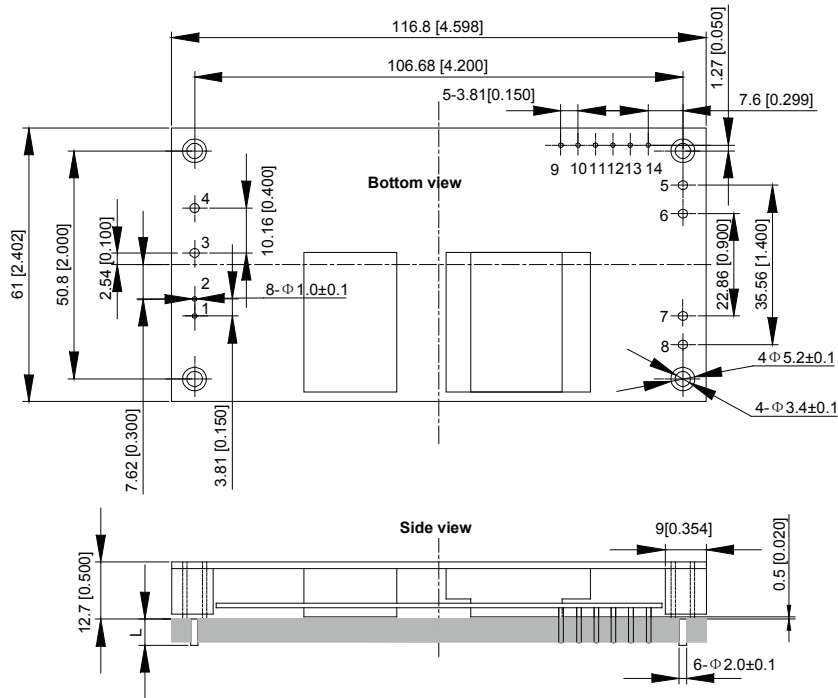
Standard version is negative enable

"-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 <sub>in</sub> + | Positive input voltage  |
| 4       | V <sub>in</sub> - | Negative input voltage  |
| 5,6     | V <sub>o</sub> -  | Negative output voltage |
| 7,8     | V <sub>o</sub> +  | 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.



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## 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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