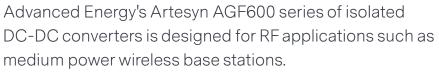


ARTESYN AGF600-48S50P SERIES

600 Watts



This series of converters offers two wide input range models. The AGF600-24 accepts an 18 to 36 Vdc input, while the AGF600-48 accepts a 36 to 75 Vdc input. Both models provide a regulated low noise 28 Vdc output that can deliver up to 21.5 amps. Rated at 600 watts, they can operate over an ambient temperature range of -40 to 85°C, continuing to deliver full power up to a baseplate temperature of 100°C. The converters use a 320 kHz fixed frequency switching to minimize EMI filtering needs.

SPECIAL FEATURES

- Delivering up to 12 A output
- Ultra-high efficiency 94.3% typ. at full load
- Wide input range: 36 V ~ 75 V
- Excellent thermal performance
- No minimum load requirement
- Fixed frequency operation
- RoHS 6 compliant
- Remote control function
- Remote output sense
- Trim function: 50% ~ 114%
- Input undervoltage protection
- Output overcurrent protection

- Output overvoltage protection
- Overtemperature protection
- Industry standard full-brick pin-out outline
- With aluminum baseplate
- Pin length optional

SAFETY

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

DATA SHEET

Total Power:

600 Watts

Input Voltage:

36 - 75 V

of Outputs:

Single



AGF600-48S50P

ELECTRICAL SPECIFICATIONS

Input		
Input range	36 - 75 VDC	
Efficiency	94.3%	
Output		
Output voltage	50 Vdc	
Output current	12 A	
Voltage tolerance	+/-1%	
Line regulation	14 mV	
Load regulation	56 mV	
Noise/ripple	160 mV	
Overvoltage protection	Ніссир	
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

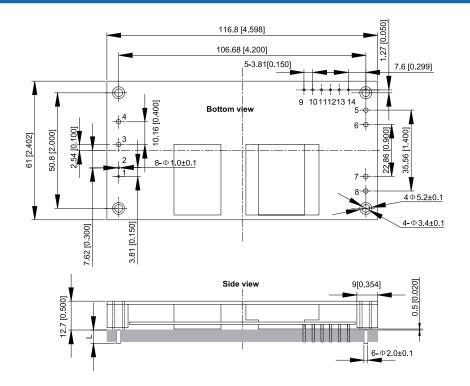
Model number	Input voltage	Output voltage	Power
AGF600-48S50P-6L	36 - 75 Vin	50 V @ 12 A	600 W

"-6" = 3.8 mm pin length "-L" = RoHS 6 compliance





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	
Pin #	Function	
1	+On/Off	
2	-On/Off	
3	Vin+	
4	Vin-	
5,6	Vo-	
7,8	Vo+	
9	AUX	
10	IOG	
11	NC	
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.





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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For international contact information, visit advancedenergy.com.

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