AIF Series

600 Watts

Total Power: 600 Watts

(12V@50Amps)

Input Voltage: 300V # of Outputs: Single

Special Features

Safety





Rev. 05.23.07 AIF Series 1 of 2

Electrical Specifications

Input	
Input range	250 - 420 VDC
Input surge	450V / 100ms
Efficiency	90%@5.0V (Typical)
Output	
Load Regulation	0.2% typical down to no load
Line Regulation	0.2% typical
Noise / Ripple	100mV typical (below 5V); 2% typical (5V and above)
Remote sense	Up to 0.5V
Output voltage adjust range	+/-20% for 5V and above; +10%/ -50% for below 5V
Transient Response	5% max for 3.3V and above, 150mV for 1.8V, deviation with 25% to 75% full load 250 μS (max) recovery
Current Share Accuracy	3% typical
Overvoltage Protection	115% Vo (nominal)
Current Limit	115% lo maximum
Control	
Voltage Adjust	80 to 120% Vo linear programming for 12V, 15V, 24V, 48V 50%

Enable

TTL compatible (positive & negative enable options) Current Limit Adjust 20 to 100% lo linear programming or digital mode control

to 110% for 1.8V - 5.0V

Clock Input (external sync) 3.3 to 5.5Vp-p @ 800KHz ±10% Clock Output (internal clock) 4.5Vp-p typical@ 800KHz ±5% Power Good Identification High (Vo) = power good Temperature Monitor Output $10\text{mV/}^{\circ}\text{K}$ (2.73 = 0°C)

0 to 1mA (1mA = 100% lo rated) **Current Monitor Output**

Over Voltage Protection 110 to 150% Vo linear programming by voltage or resistor,

Adjust or digital mode control

Nominal values apply with sense pins connected and other control pin unconnected. ALP: Astec Linear Programming





Rev. 05.23.07 **AIF Series** 2 of 2

Environmental Specifications

Operating temperature -20°C to +100°C (case temperature) Start up temperature -40°C to +100°C (case temperature)

Storage temperature -40°C to +125°C Overtemperature protection 110°C max

Ordering Information				
Input	t Voltage	Output Voltage	Efficiency	Model Number
300V		1.8V @ 120A	80% (Typ)	AIF120Y300
300V		3.3V @ 120A	87% (Typ)	AIF120F300
300V		5.0V @ 80A	90% (Typ)	AIF80A300
300V		12V @ 50A	90% (Typ)	AIF50B300
300V		15V @ 40A	90% (Typ)	AIF40C300
300V		24V @ 25A	90% (Typ)	AIF25H300

- 1. For Negative enable, add suffix "-N".
- 2. For Non-thread hole, add suffix "-NT".
- 3. For RoHS 6, add suffix "-L". Default is RoHS 5.

5810 Van Allen Way Carlsbad, CA 92008

Americas

Telephone: +1 760 930 4600 Facsimile: +1 760 930 0698

Europe (UK)

Waterfront Business Park Merry Hill, Dudley West Midlands, DY5 1LX United Kingdom

Telephone: +44 (0) 1384 842 211 Facsimile: +44 (0) 1384 843 355

Asia (HK)

16th - 17th Floors, Lu Plaza 2 Wing Yip Street, Kwun Tong Kowloon, Hong Kong Telephone: +852 2176 3333

Facsimile: +852 2176 3888

For global contact, visit:

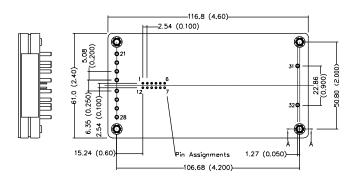
www.astecpower.com www.artesyn.com technicalsupport@astec.com technicalsupport@artesyn.com

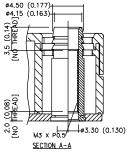
While every precaution has been taken to ensure accuracy and completeness in this literature, Emerson Network Power assumes no responsibility, and dis-

all liability for damages resulting from use of this information or for any errors or omissions.

13.96 (0,549) 12.7

-BASEPLATE (CONNECT TO PROTECTIVE EARTH)





Pin Assignments

32. Negative 22. Positive

Input (AC) Output (DC) Control Pins

2. Temp Mon

3. C Mon

4 C Share

9. OVP Adj

10, V Adi

11 Enable

12. -Sense

31. Positive 21. Positive 1. +Sense

23. Positive

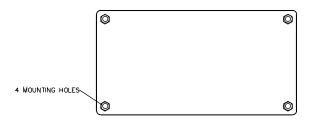
24. Positive

25. Negative 5. Clk Out

28. Negative 8. C Lim Adj

26. Negative 6. Clk In 27. Negative 7. PG/ID





Emerson Network Power.

The global leader in enabling business-critical continuity.

AC Power

Connectivity

DC Power

Embedded Power

Inbound Power

Integrated Cabinet Solutions

Outside Plant

Precision Cooling

Site Monitoring and Services

EmersonNetworkPower.com

Emerson Network Power and the Emerson Network Power logo are trademarks and service marks of Emerson Electric Co. ©2005 Emerson Electric Co.

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Artesyn Embedded Technologies:

AIF25H300-L AIF25H300N-NTL AIF25H300N-L