AIF Series 600 Watts

Total Power: Input Voltage: 300V # of Outputs:

600 Watts Single

Special Features

- 108W/in³ (6.6W/cm³)
 High efficiency up to 90%

Safety

UL	60950 Recogniz
cUL	60950 Recogniz
TUV	EN60950 Licens
CE	CE Mark





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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	to 110% for 1.8V - 5.0V
2.1.4.5.1.6	TTL compatible (positive & negative enable options)
Current Limit Adjust	20 to 100% lo linear programming or digital mode control
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	10mV/°K (2.73 = 0°C)
Current Monitor Output	0 to 1mA (1mA = 100% l _{o rated})
Over Voltage Protection Adjust	110 to 150% Vo linear programming by voltage or resistor, or digital mode control
Notes	

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





Environmental Specifications

Operating temperature Start up temperature Storage temperature Overtemperature protection 110°C max

-20°C to +100°C (case temperature) -40°C to +100°C (case temperature) -40°C to +125°C

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

31. Positive 21. Positive 1. +Sense

23. Positive

24. Positive

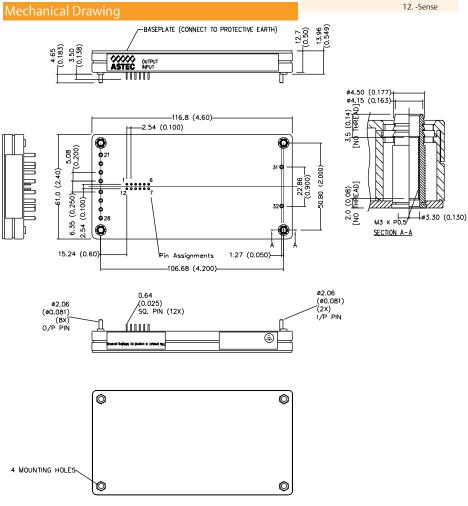
25. Negative 5. Clk Out

28. Negative 8. C Lim Adj

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

Ordering Information						
Input V	oltage	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".						
For Non-thread hole, add suffix "-NT".						

3. For RoHS 6, add suffix "-L". Default is RoHS 5.



Americas

5810 Van Allen Way Carlsbad, CA 92008 USA 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:

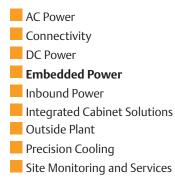
www.astecpower.com www.artesyn.com technicalsupport@astec.com technicalsupport@artesyn.com

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