AIF Series

600 Watts

Total Power: 600 Watts

(12V@50Amps)

Input Voltage: 300V # of Outputs: Single

Special Features

Safety





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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

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





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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.

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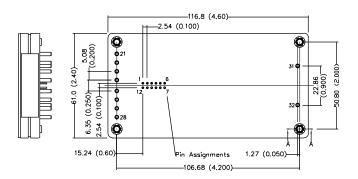
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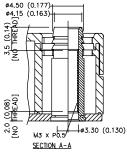
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-BASEPLATE (CONNECT TO PROTECTIVE EARTH)





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

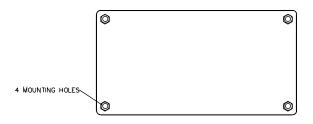
24. Positive

25. Negative 5. Clk Out

28. Negative 8. C Lim Adj

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





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