

## AIH Series

250 Watts

**Total Power:** 250 Watts  
(12V @ 20.8A)  
**Input Voltage:** 300V  
**# of Outputs:** Single



## Special Features

- 250W Continuous power at 100°C baseplate temperature
- High efficiency - up to 88%
- Low output ripple and noise
- Positive and Negative enable function
- Excellent transient response
- Safety isolated low voltage control and monitoring
- High reliability
- Wide input voltage range
- Paralleable with accurate current sharing
- Adjustable output voltage
- Regulation to zero load
- Temperature monitor output
- EU Directive 2002/95/EC compliant for RoHS

## Safety

UL 60950 Recognized  
cUL 60950 Recognized  
TUV EN60950 Licensed  
CE CE Mark

## Electrical Specifications

### Input

Input range	250 - 420 VDC
Input surge	450V / 100ms
Efficiency	88% @ 5.0V (typical)

### Output

Load Regulation	0.2% typical (5V and above); 10mV for below 5V
Line Regulation	0.2% typical (5V and above); 10mV for below 5V
Noise / ripple	100mV typical (below 5V); 2% typical (5V and above)
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 $\mu$ S (max) recovery
Current share accuracy	3% typical
Overvoltage protection	130% $V_o$ (3.3 $V_o$ and 5 $V_o$ ); 125% $V_o$ (other $V_o$ )
Current limit	120% $I_o$ maximum

### Control

Voltage adjust	80 to 120% for 5V and above; +10% / -50% for below 5V
Enable	TTL compatible (positive & negative enable options)
Clock input (external sync)	3.3 to 5.5Vp-p @800 MHz $\pm$ 5%
Temperature monitor output	10mV/ $^{\circ}$ K (2.73 = 0 $^{\circ}$ C)
Current monitor output	0 to 1mA (1mA = 100% $I_o$ rated)

### Notes

Nominal values apply with sense pins disconnected and other control pin unconnected.



