

# AM80A-Dual

224 Watts

## AM80A-Dual Performance Series

Total Power	224 Watts
Input Voltages	48V
# of Outputs	Dual



### SPECIAL FEATURES

- 85°C baseplate operating temperature (no derating)
- Low output ripple and noise
- Excellent transient response
- Safety isolated low voltage interface with ALP™ linear control
- High Reliability - over 1 million hours MTBF
- Wide input voltage range
- Parallelable with accurate current sharing
- Current and temperature monitoring signals for each output

### ENVIRONMENTAL

Operating temperature (baseplate):  
-20°C to +85°C

Storage temperature: -40°C to +105°C

Overtemperature protection: 100°C typical

MTBF: > 1 million hours (50°C baseplate)

### SAFETY

<b>UL</b>	UL 1950	E132002
<b>CSA</b>	CSA22.2-234 CSA22.2-950	LR53982C
<b>VDE</b>	IEC950	20396-3336-1011
<b>EN</b>	60950	
<b>CE</b>	CEMark (LVD)	

### ELECTRICAL SPECIFICATIONS

#### Input

Input Range ..... 36 to 72 VDC

Efficiency ..... 80% typical (5V @ 25A, 3.3V @ 30A)

#### Control

Voltage Adjust ..... 80 to 120% Vo linear programming

Enable ..... TTL compatible (low to enable)

Current Limit Adjust ..... 20 to 100% Io linear programming

Clock Input (external sync) ..... 3.3 to 5.5Vp-p @ 1MHz ± 10%

Clock Output (internal clock) ... 4.5Vp-p typical @ 1MHz ± 0.5%

Temperature Monitor Output ... 10 mV/K (2.73V = 0°C)

Current Monitor Output ..... 0 to 1mA (1 mA = 100% Io rated)

#### Over Voltage

Protection Adjust ..... 110 to 150% Vo linear programming

#### Outputs

Load Regulation ..... 0.1% typical down to no load

Line Regulation ..... 0.02% typical

Noise/Ripple ..... 50 mV typical

Remote sense ..... Up to 0.5V

Output Voltage Adjust Range .. ±20% of nominal output

Transient Response ..... 5% maximum deviation with 200µs recovery (25-75% full load)

Current Share Accuracy ..... 3% typical

Overvoltage Protection ..... 115% Vo (nominal)

Current Limit ..... 110% Io maximum

### NOTES

Nominal values apply with sense pins connected and other control pins unconnected.

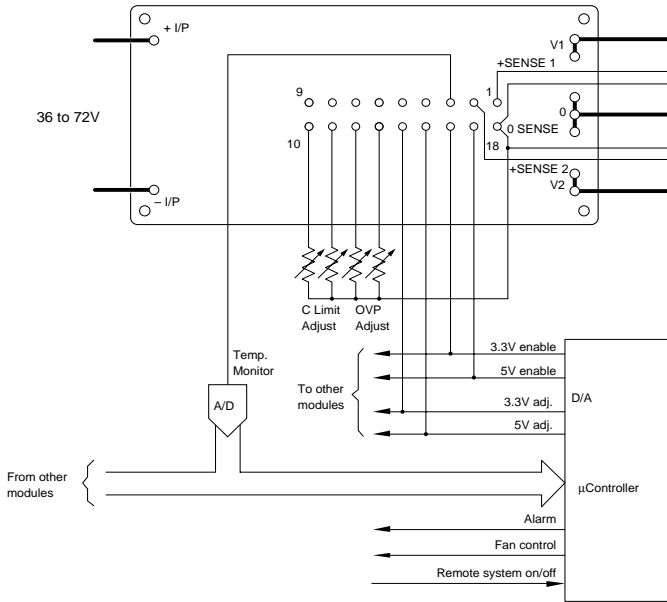
Specifications apply to both outputs except where otherwise indicated.

Specifications subject to change without notice.

## ORDERING INFORMATION

Input Voltage	Output Voltage 1	Output Voltage 2	Model Number
48V	5V@25A	3.3V@30A	AM80A-048L-050P25D033P30

## CONNECTIONS



Microprocessor connection example

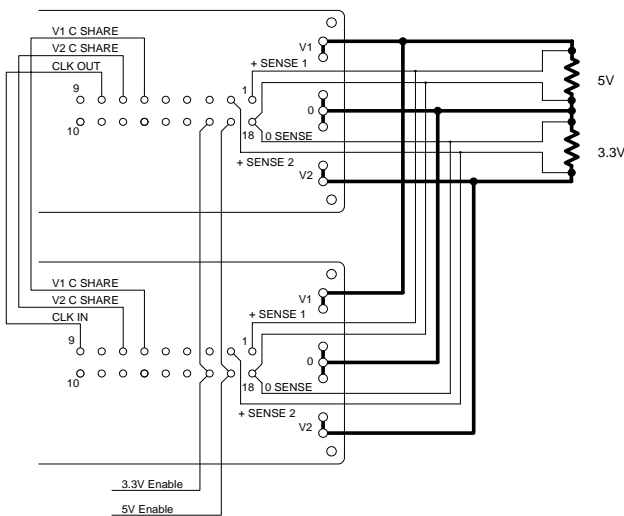
## PIN ASSIGNMENTS

Input	Output	Control Pins
31. +ve	21. } V1	1. V1 SENSE
32. -ve	22. }	2. V2 SENSE
5V / 25A	24. } 0	3. TEMP MON
	25. }	4. V1 C MON
3.3V / 30A	26. }	5. V2 C MON
	28. } V2	6. V1 C SHARE
	29. }	7. V2 C SHARE
		8. CLK OUT
		9. CLK IN
		10. V2 C.L. ADJ
		11. V1 C.L. ADJ
		12. V2 OVP ADJ
		13. V1 OVP ADJ
		14. V2 V ADJ
		15. V1 V ADJ
		16. V2 ENABLE
		17. V1 ENABLE
		18. 0 SENSE

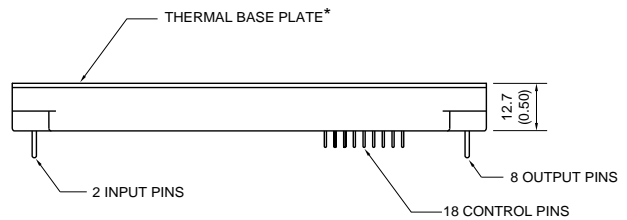
Secondary side controls

AM80A-Dual

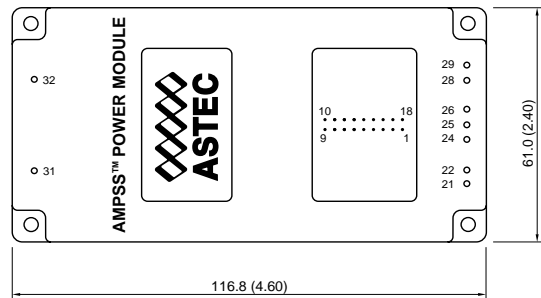
## DIMENSIONS



Parallel connections



\*Must be connected to protective earth



Viewed from pins side. Dimensions in mm (inches)